

Bataac Oil, Inc.

June 30, 1987

RECEIVED
JUL 01 1987

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203
Attn: Arlene Sollis

**DIVISION OF
OIL, GAS & MINING**

Re: APD's for Lone Cedar
Federal #'s 42-15, 21-14, 24-15
13-14 - Garfield County, Utah

Dear Ms. Sollis:

Please find enclosed one full copy of our APD's for the four Lone Cedar Federal wells which we have staked in Township 31 South, Range 12 East, Sections 14 and 15, in Garfield County, Utah. Enclosed also is a Drilling Plan which refers to all four wells.

We intend to begin operations to drill the #42-15 well around the 20th of July, or as soon as we receive approval thereafter. We will be providing the BLM with a treasury note at the Federal Reserve Bank in Denver, as per instructions from Irene Anderson of the Salt Lake City office, for bonding purposes.

Please let us know if you require any further information in connection with these applications. Thank you for your help in this matter.

Sincerely,

Carl Friis

CARL FRIIS
Land Manager

CF:klh

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
Bataa Oil, Inc (303-352-7425)

3. ADDRESS OF OPERATOR
5401 W. 10th Street, Greeley, CO 80634

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface Township 31 South, Range 12 East
At proposed prod. zone Section 14: 1960' FNL & 580' FEL SE/NE
same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
Twenty-two miles south of Hanksville

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drg. unit line, if any) 580'

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1842'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4977' GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5	200'	250 sacks Est fill-200'
11"	8 5/8"	24.0	1300'	250 sacks Est fill-300'
7 7/8"	5 1/2"	15.5	5500'	500 sacks Est fill-800'

1. Drill 17 1/2" surface hole and set 13 3/8" casing to 200 with returns to surface
2. Drill 11" hole to 1300' or into the Chinle, set 8 5/8" casing if necessary.
3. Drill 7 7/8" hole to 5500' or into the Desert Creek Formation.
4. Core two 30' sections of the Desert Creek, run Density/Porosity, Dual Induction and Sonic logs, DST if logs are promising.
5. Run 5 1/2" casing from surface or bottom of 8 5/8" casing, to T.D., bond log and perforate, stimulate if needed.

EXHIBITS ATTACHED:

- | | |
|------------------------------------|--|
| A. Drilling Program | F. Drill Pad Layout-Cut and Fill Section |
| B. Thirteen-Point Surface Use Plan | G. One Mile Radius Map |
| C. Blowout Preventer Diagram | H. Archeologist's Site Report |
| D. Access Road Map To Location | I. Proposed Production Facilities. |
| E. Existing Road Map | J. Designation of Operator/ |

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Carl Friis Carl Friis TITLE Land Manager DATE 6/24/87

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____

TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 7-9-87

BY: John R. Day

*See Instructions On Reverse Side

WELL SPACING: 302

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JUL 01 1987

DIVISION OF
OIL, GAS & MINING

BEARINGS FROM W. LINE SEC. 14 (N 0° 01' W)

T315

PREPARED BY
KEOGH SURVEYING
MOAB, UTAH BK-82

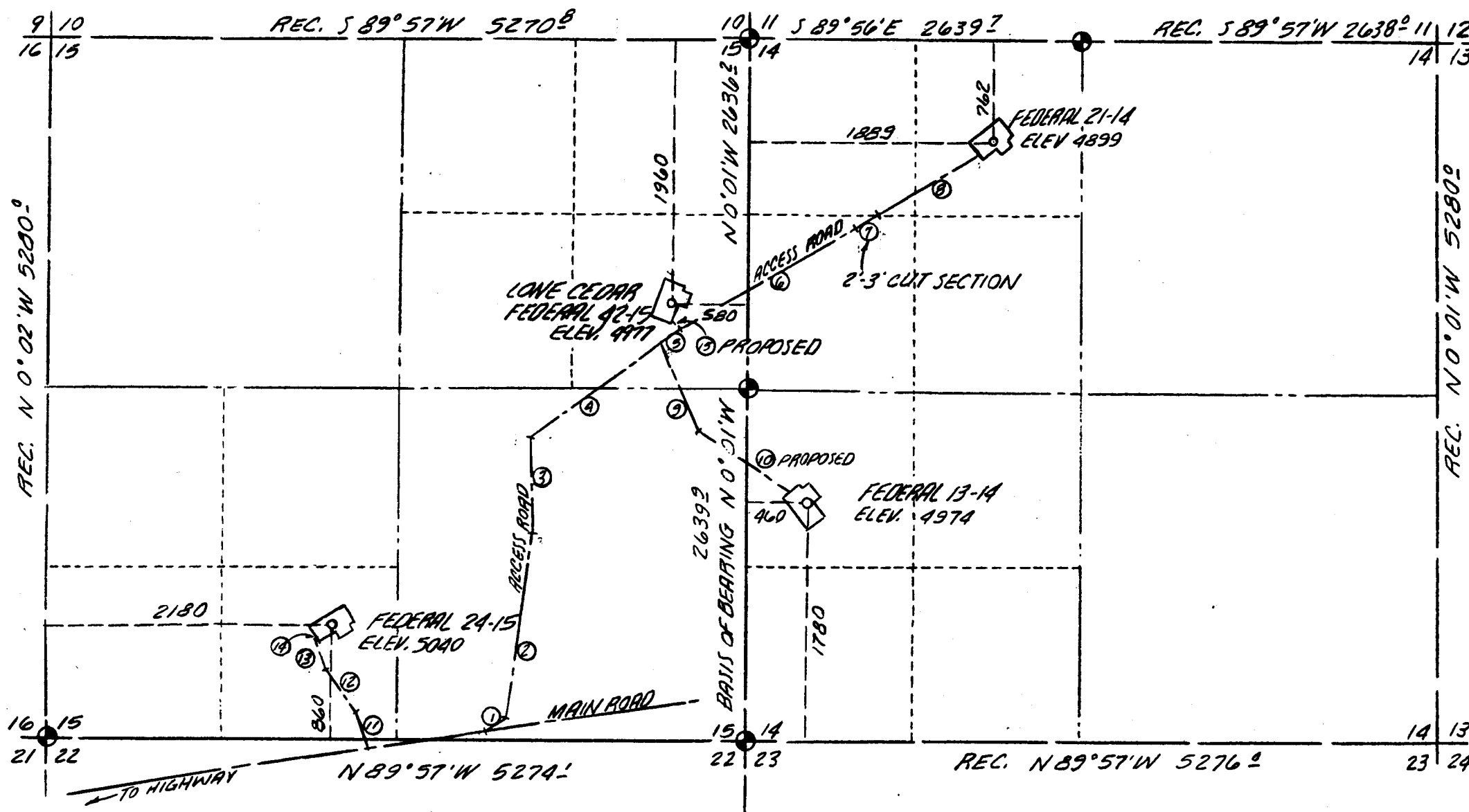
Timothy M. Keogh
UTAH ALST #7692
STATE OF UTAH
SURVEYOR
NO 7692
TIMOTHY M. KEOGH

EXHIBIT D

WELL LOCATION PLAT
OF: LONE CEDAR FED. 42-15
FEDERAL 21-14
FEDERAL 13-14
FEDERAL 24-15
IN SEC'S 14 & 15, T31S, R12E, S.L.B. & M
GARFIELD CO, UTAH

PREPARED FOR
— BATAA OIL, INC. —
SCALE: 1" = 1000' JUNE 15, 1987

R12E



LEGEND

- FOUND G.L.O. B.C., 1922
- WELL LOCATION

NOTE: ELEVATIONS FROM U.S.G.S.
TOPO QUAD "BULL MTN. UT. *1952 *
(SW COR. SEC. 16 = 5042).
OBTAINED BY VERTICAL ANGLES.

ACCESS ROAD COURSES

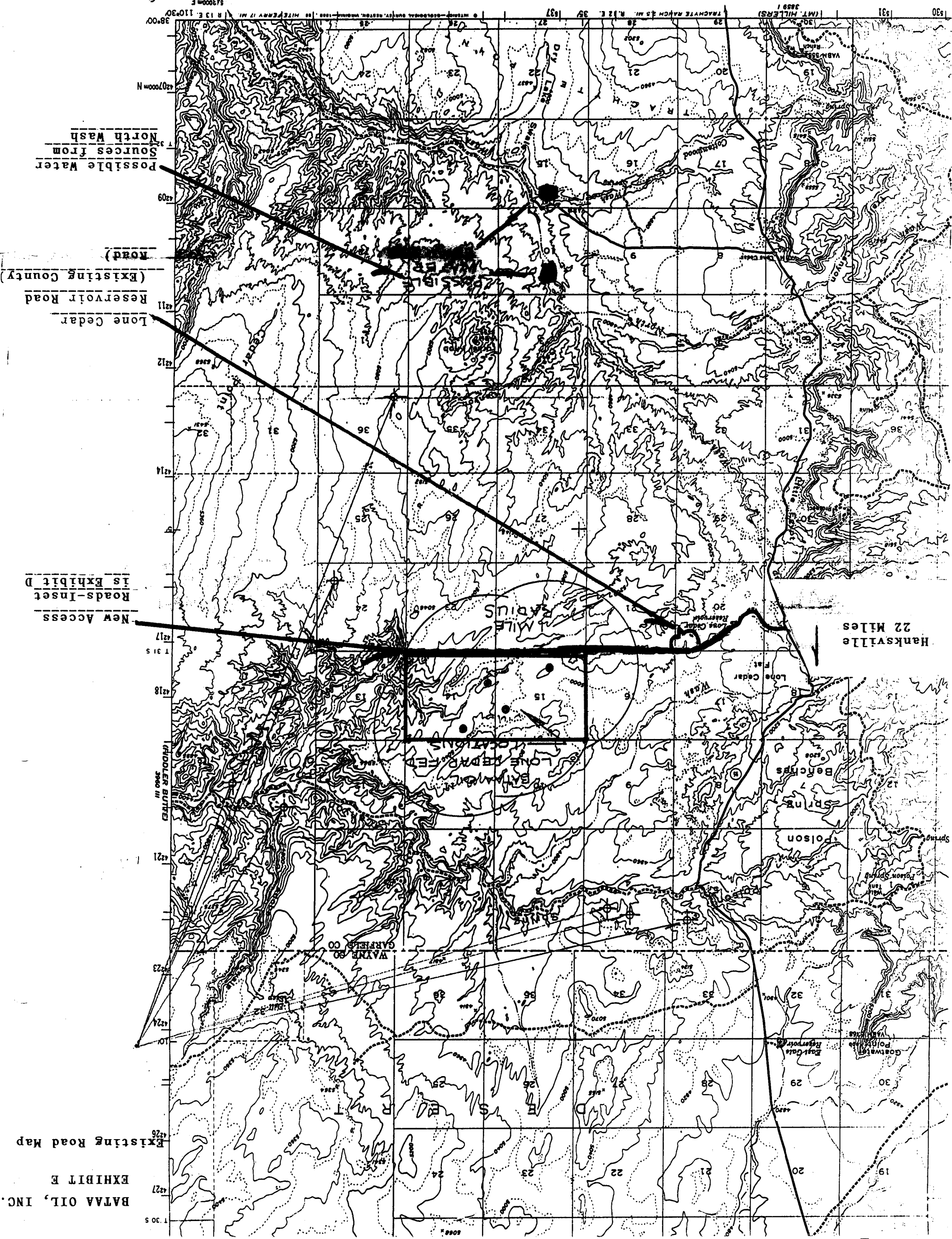
- | | |
|---------------------|--|
| 1) N 53° 44' E 2023 | 9) S 22° 59' E 718 |
| 2) N 8° 00' E 1418 | 10) S 56° 13' E 843, TO BE CONSTRUCTED |
| 3) N 1° 21' W 705 | 11) N 10° 42' W 271 |
| 4) N 53° 33' E 1202 | 12) N 36° 16' W 381 |
| 5) N 60° 40' E 1544 | 13) N 25° 12' W 273 |
| 6) N 59° 31' E 1547 | 14) N 55° 11' E 40 |
| 7) N 59° 34' E 209 | 15) N 25° 46' W 98, TO BE CONSTRUCTED |
| 8) N 58° 50' E 891 | |

* THIS COURSE TO BE CUT 2'-3', 3:1 SLOPES MAX.

T31S

BATAA OIL, INC.
EXHIBIT E

Existing Road Map

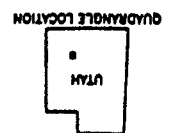


New Access
Roads-Inset
is Exhibit D

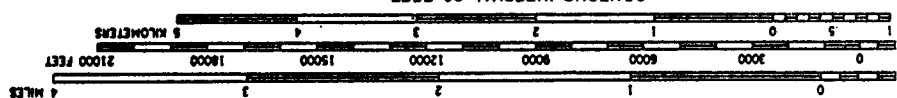
Reservoir Road
(Existing County
Road)

Possible Water
Sources from
North Wash

BULL MOUNTAIN, UTAH
N 3800—W 11030/15
1962
DMA 3860 II—SERIES V797



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DASHED LINES REPRESENT 40-FOOT CONTOURS
CONTOUR INTERVAL 80 FEET
SCALE 1:62,500

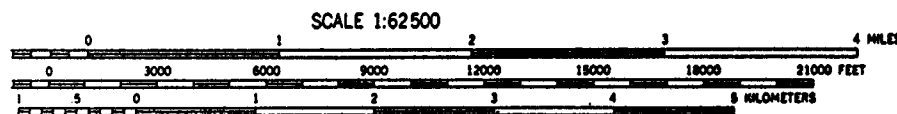
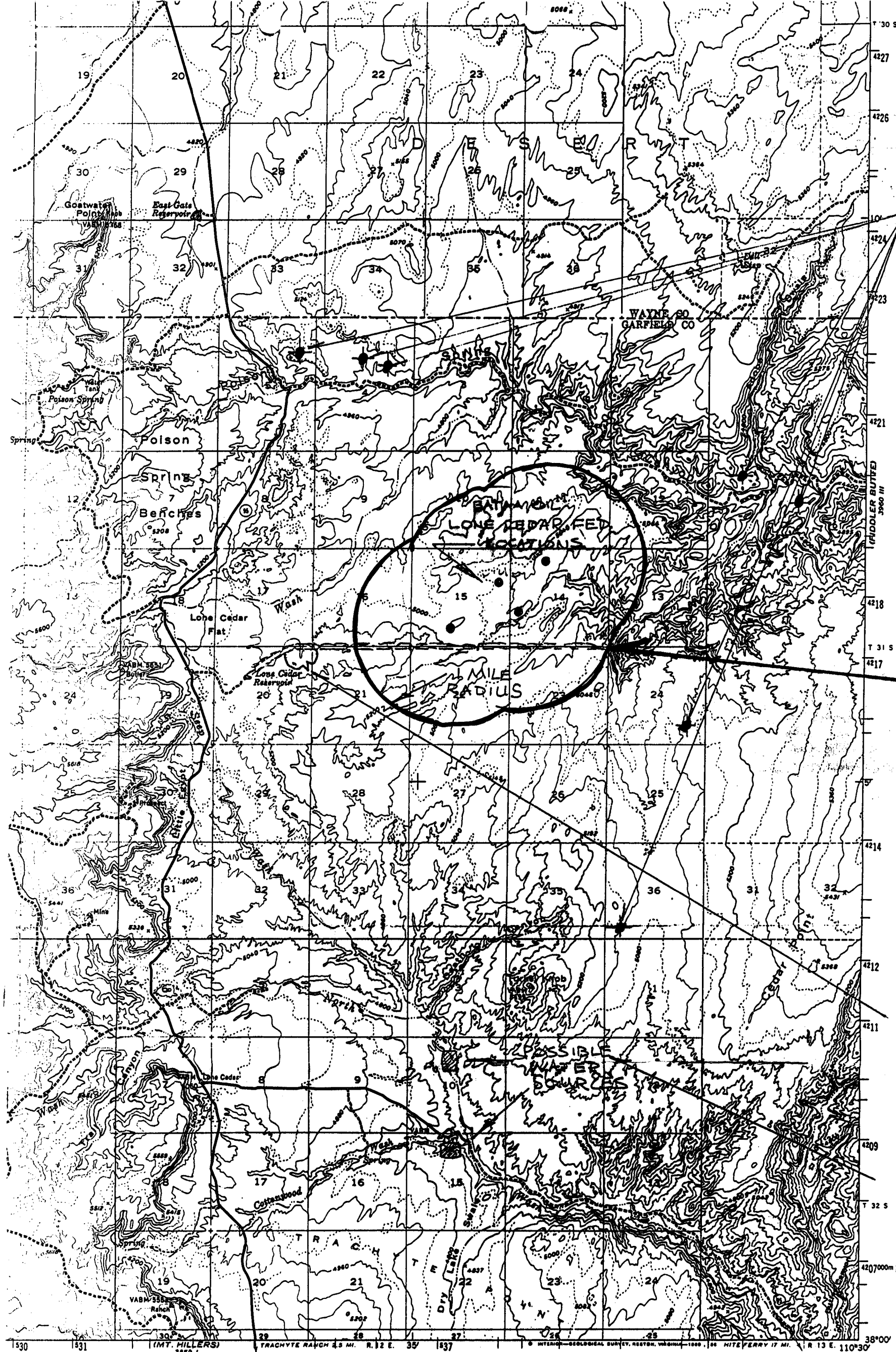


BATAA OIL, INC.
EXHIBIT G

One Mile Radius
Map From Staked
Well Locations

Abandoned Oil
And Gas Test
Wells-From
Petroleum I
-mation, Inc.

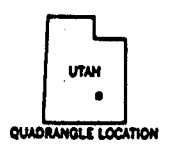
Combined One
Mile Radii
From Locations
Staked By
Bataa Oil, Inc.



SCALE 1:62500

CONTOUR INTERVAL 80 FEET
DASHED LINES REPRESENT 40-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



ROAD CLASSIFICATION

Light-duty ————— Unimproved dirt —————

○ State Route

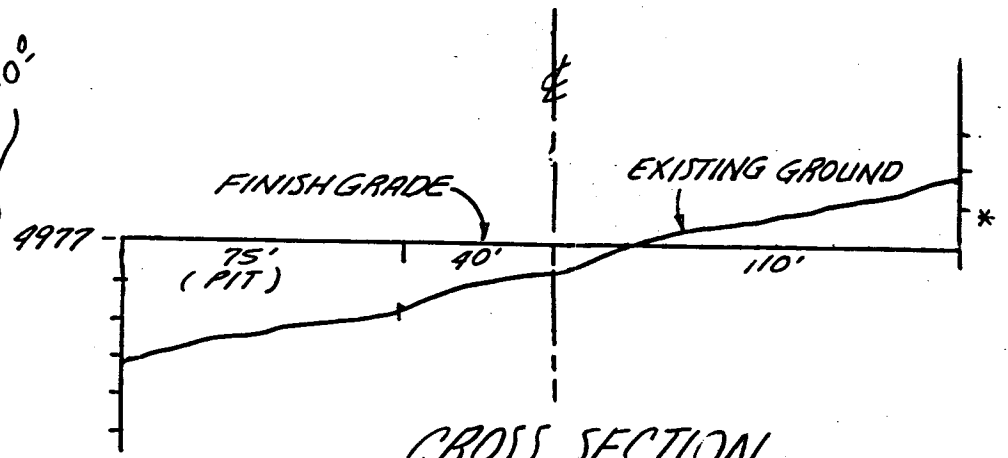
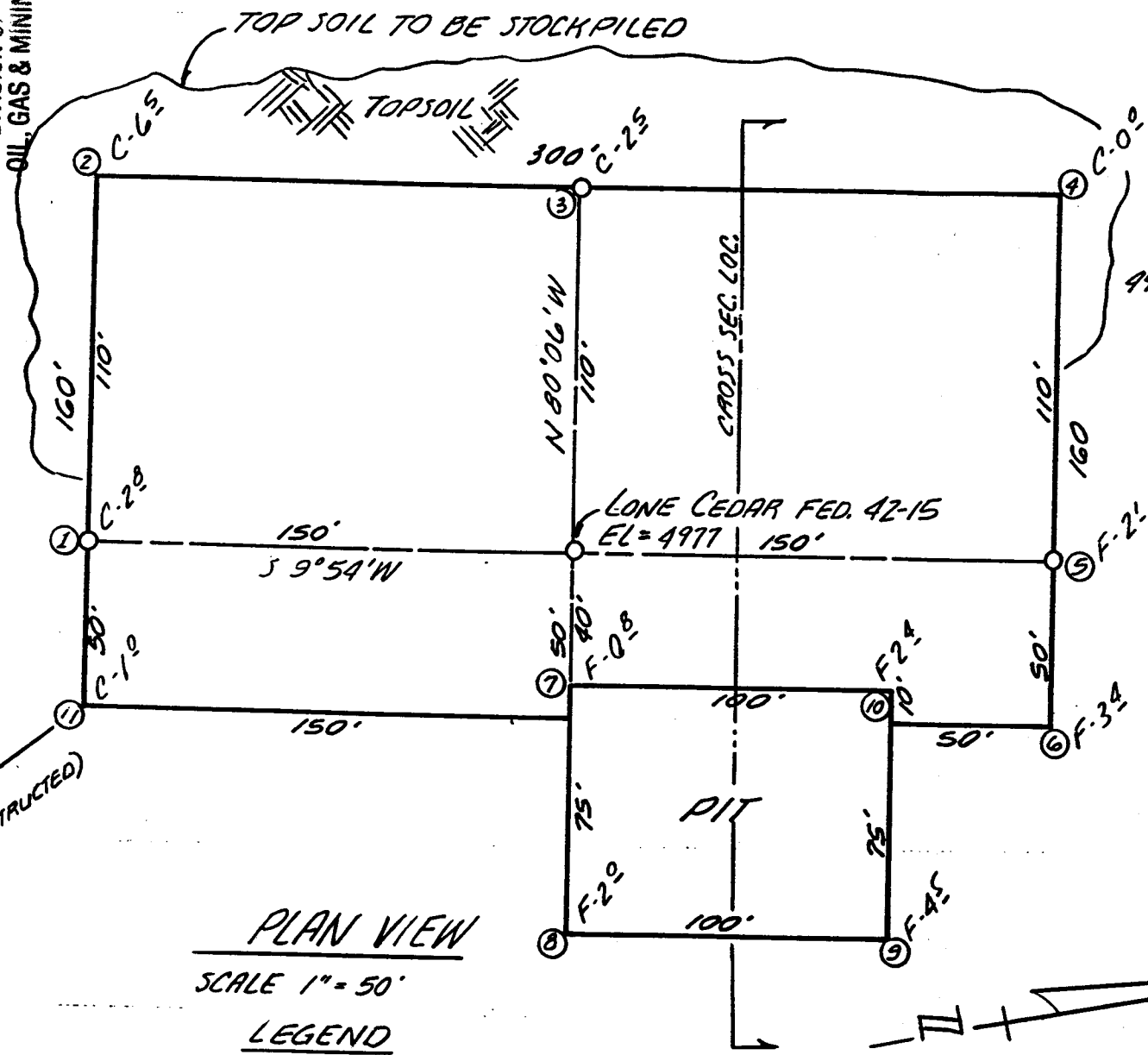
BULL MOUNTAIN, UTAH
N3800—W11030/15
1952

DMA 3860 II—SERIES V797

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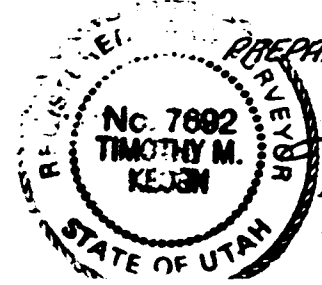
DIVISION OF
OIL, GAS & MINING



— FOR: BATAA OIL, INC. —

EXHIBIT F

LONE CEDAR FEDERAL 42-15
IN THE SE 1/4 NE 1/4 SEC. 15,
T31S, R12E, SLB6M
GARFIELD COUNTY, UTAH.
JUNE 16, 1987



PREPARED BY: MEOGH SURVEYING
MOAB, UTAH

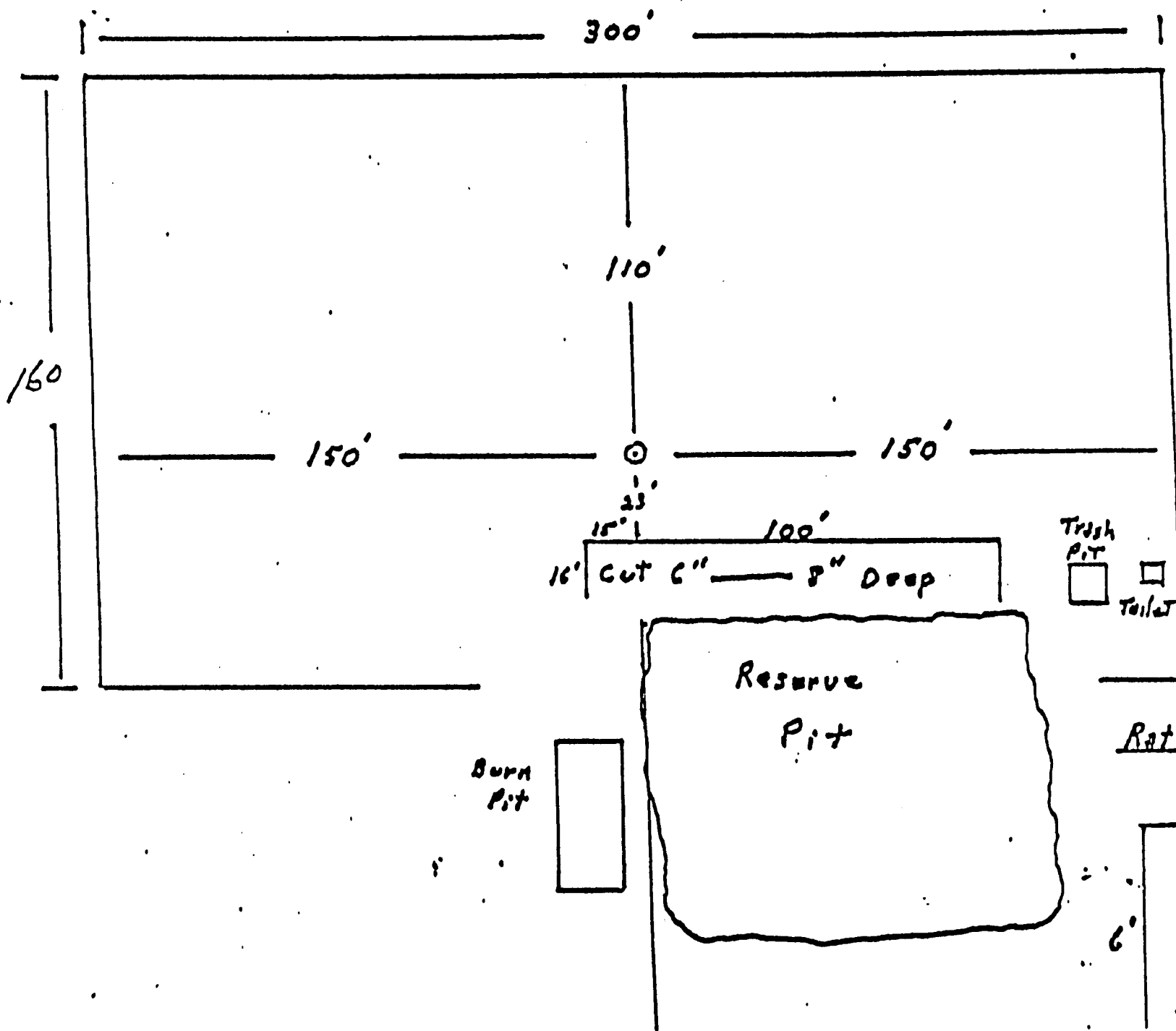
Timothy M. Keogh
UTAH R.L.S. NO. 76920

BK. 82

Rig #3

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DIVISION OF
OIL, GAS & MINING

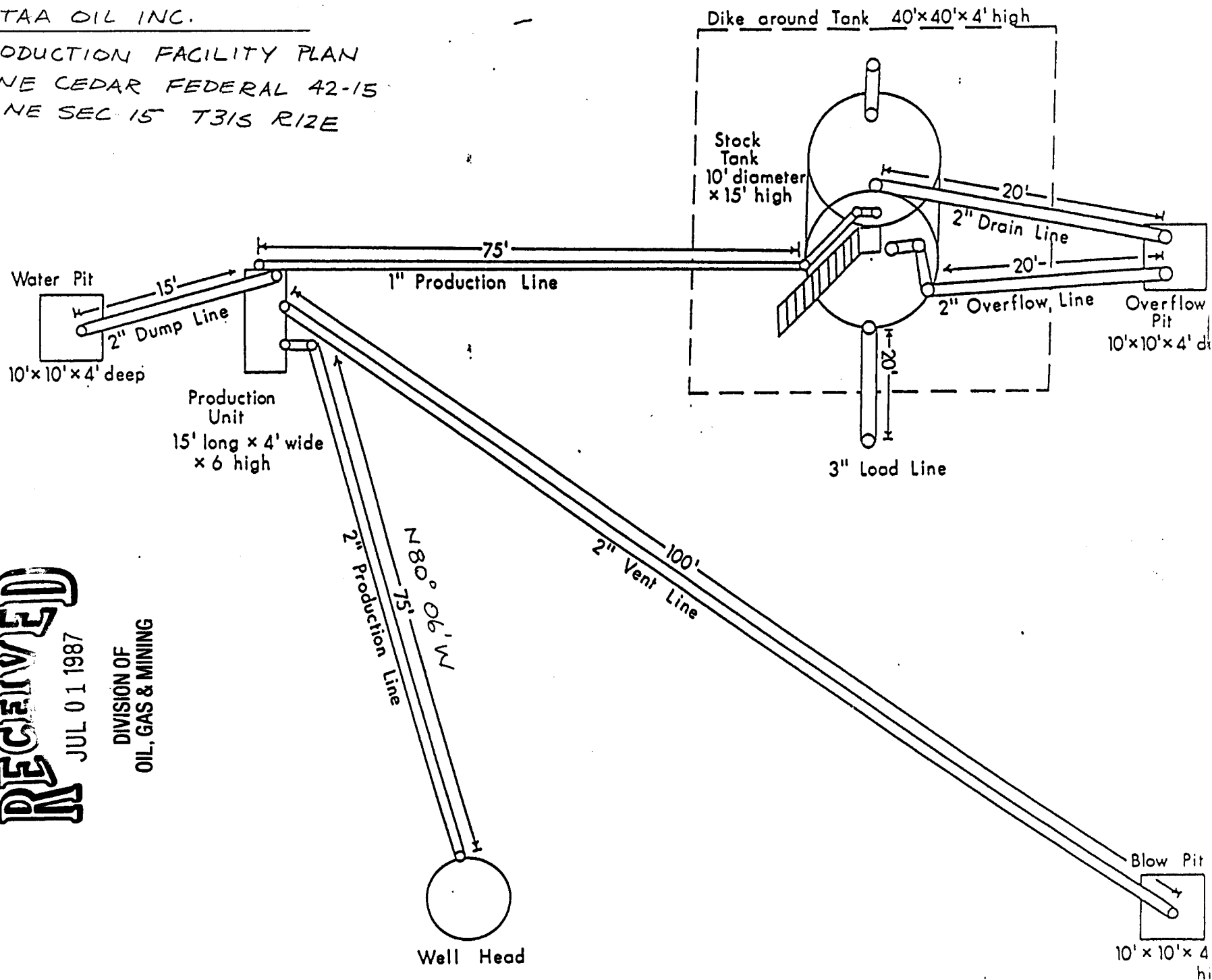


BATAA OIL INC.

PRODUCTION FACILITY PLAN

LONE CEDAR FEDERAL 42-15

SENE SEC 15 T31S R12E

**RECEIVED**

JUL 01 1987

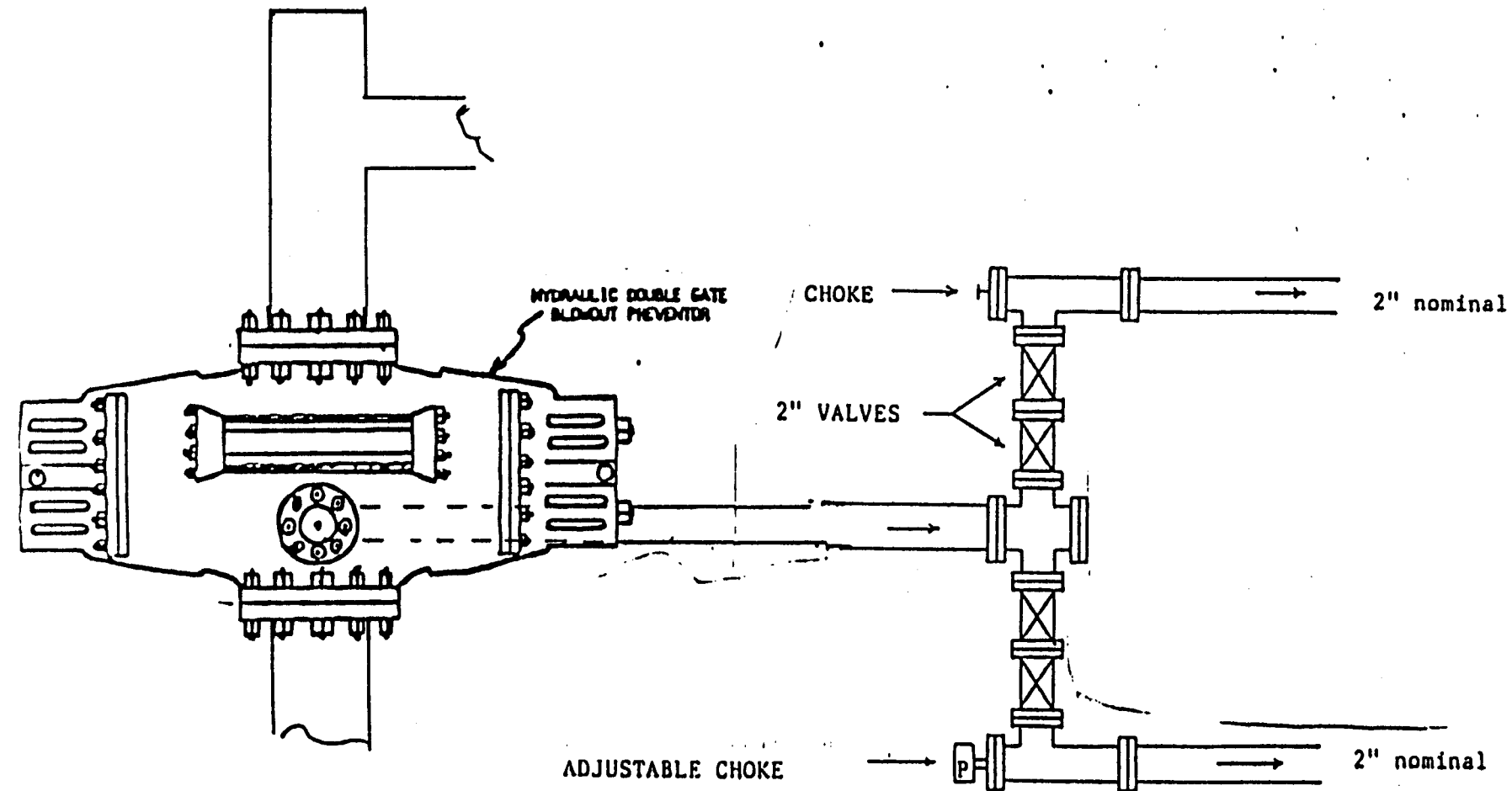
DIVISION OF
OIL, GAS & MINING

NOTE: ALL PITS WILL BE FENCED AND
A DIKE WILL BE CONSTRUCTED
AROUND TANK BATTERY.

EXHIBIT C
BLOWOUT PREVENTER DIAGRAM

RIG # 3

11" 3000#



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DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

STATE OFFICE: Utah
SERIAL NO.: U-50955

and hereby designates

NAME: Bataa Oil, Inc.
ADDRESS: 5401 West 10th Street
Greeley, Colorado 80634

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160) with respect to (describe acreage to which this designation is applicable):

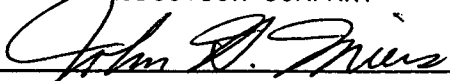
Township 31 South, Range 12 East, SLM
Section 14: NW/4, SW/4
Section 15: NE/4, SW/4

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the authorized officer of any change in the designated operator.

AMOCO PRODUCTION COMPANY

x 
(Signature of lessee)
Its Attorney-in-Fact

May 28, 1987

(Date)

P. O. Box 800, Denver, CO 80201

(Address)

This form does not constitute an information collection as defined by 44 U.S.C. 3502 and thereto does not require OMB approval.

UT-060-3160-1 DIVISION Or
(April 1984) OIL, GAS & MINING

BUREAU OF LAND MANAGEMENT
MOAB DISTRICT
CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

42-15
21-14
24-15

Company BATAA OIL, INC. Well No. 13-14

Location: Sec: 14 + 15 T. 31 S R. 12 E Lease No. U-50955

Onsite Inspection Date 6/12/87

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to ensure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops: Surface formation is Entrada. Expected tops are:

<u>Navajo: 77'</u>	<u>Organ Rock: 2543'</u>
<u>Kayenta: 752'</u>	<u>Cedar Mesa: 2733'</u>
<u>Wingate: 963'</u>	<u>Hermosa: 4068'</u>
<u>Chinle: 1251'</u>	<u>Ismay: 4728'</u>
<u>Shinarump: 1522'</u>	<u>Desert Creek: 4988'</u>
<u>Moenkopi: 1619'</u>	<u>**THESE DEPTHS ARE FOR THE #42+15 WELL, ADJUST</u>
<u>White Rim: 2071'</u>	<u>DEPTHS FOR OTHER WELLS ACCORDING TO RELATIVE SURFACE ELEVATIONS</u>
2. Estimated Depth at Which Oil, Gas, Water, or Other Mineral-Bearing Zones Are Expected to Be Encountered:

	<u>Formation</u>	<u>Depth</u>
Expected oil zones:	<u>Desert Creek</u>	
Expected gas zones:	<u>None Expected</u>	
Expected water zones:	<u>No fresh water zones expected</u>	
Expected mineral zones:	<u>None Expected</u>	

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth, cased and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment: 11", 3000# Blowout Preventer-
See Exhibit "C".

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure-tested before drilling casing cement plugs. The Resource Area (will/will not) be notified _____ days in advance when pressure tests are to be conducted.

4. Casing Program and Auxiliary Equipment: Will set the 8 5/8" intermediate string into the top of the Chinle only if fresh water is encountered above it, or if lost circulation problems are encountered above the Chinle. The 11" hole will be air drilled from surface to Chinle. Anticipated cements tops will be reported as to depth, not the expected number of sacks. The Resource Area (will/will not) be notified _____ days in advance when running casing strings and cement.
5. Mud Program and Circulating Medium: The hole will be "mudded" up once drilling the 7 7/8" hole is started. Mud weight of 9.2 lb/gal or less with less than 10cc. water loss will be maintained with chem gel med. Barite and other lost circulation material will be maintained on site. Blooie line will be misted to reduce fugative dust when air drilling.
6. Coring, Logging and Testing Program: One 30', either 7 7/8" or 6" core will be cut starting at the top of the Creek. One additional 30' core will be cut lower in the Desert Creek. Density/Nuetron Porosity, Dual Induction and Sonic logs will be run. A DST will be run if any oil shows are encountered.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, work-over, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards: The mud logging unit will contain total gas, gas chromatograph, and H2S detectors. No actual H2s gas has been reported in the area. Slightly underpressured conditions are expected, with bottom hole pressures at 5500' expected to be less than 2000 psi.

8. Anticipated Starting Dates and Notifications of Operations:

The operator will contact the Henry Mountain Resource Area at (801) 542-3461, forty-eight (48) hours prior to beginning any dirt work on this location.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date (will/will not) be reported orally to the Area Manager within a minimum of twenty-four (24) hours prior to spudding. Written notification in the form of a Sundry Notice (form 3160-5) will be submitted to the District Office within twenty-four (24) hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329, "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed directly with the BLM District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations, verbal approval to bring on a replacement rig will be approved by the District Petroleum Engineer.

Should the well be successfully completed for production, the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly-drilled dry holes or failures, and in emergency situations,

oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Manager within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The marker will be constructed as follows: 4½" pipe with I.D. information "bead welded" on its surface. The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker with a plate, cap or beaded-on with a welding torch:

"Fed" or "Ind", as applicable. "Well number, location by ¼ section, township and range". "Lease number".

Other: _____

B. THIRTEEN-POINT SURFACE USE PLAN

1. Existing Roads:

- a. Location of proposed well in relation to town or other reference point: Twenty-one miles south of Hanksville on State Highway 95, then three miles east on turn off at Lone Cedar Reservoir. See Exhibit "E".
- b. Proposed route to location: See Exhibit "D" for access road plat from existing road into location.
- c. Plans for improvement and/or maintenance of existing roads: The road from State Highway 95 to the turn off to the location access roads will be graded when necessary due to increased traffic or weather conditions.

d. Other: _____

2. Planned Access Roads:

- a. The maximum total disturbed width will be _____ feet.
- b. Maximum grades: _____

- c. Turnouts: None are planned. Existing turnouts on road from Lone Cedar Reservoir will be re-graded if necessary.

- d. Location (centerline): _____

- e. Drainage: Appropriate water bars will be constructed to assure that drainage off of the drilling location and the location access road will remain the same as the existing drainage patterns.

- f. Surface materials: Surfacing material will be the native material at the road locations

- g. Other: no gates, cattle guards or fence cuts are expected to be needed. No culverts are expected to be needed for drilling operations.

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance.

The access road will be rehabilitated or brought to Resource (Class III) Road Standards within sixty (60) days of dismantling of the drilling rig. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

3. Location of Existing Wells: There are no water wells, abandoned wells, temporarily abandoned wells, disposal wells, drilling or producing wells, shut in wells, injection or monitoring wells, as of this date, within a 1 mile radius. See Exhibit "G".

4. Location of Tank Batteries and Production Facilities:

All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earth tone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows:
Light brown to match surface rocks.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

All loading lines and valves will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter along with any other sections occurring on the pad. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from: North Wash or the Dirty Devil River. The water will be hauled to location by truck. No water well will be drilled, nor will any water encountered be produced to the surface.

A temporary water use permit for this operation will be obtained from the Utah State Engineer in Panquich (Stan Adams). Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of the land.

6. Source of Construction Material:

Pad construction material will be obtained from: _____
The construction material for the pad will be the native material present at the pad site. No materials will be taken off of Federal land.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. Source of construction material (will/will not) be located on lease.

7. Methods of Handling Waste Disposal:

The reserve pit (will/will not) be lined: The reserve pit will not be lined. Drill cuttings will be buried in the reserve pit. Fluids from well testing will be collected in a swab tank. Portable chemical facilities will be on site for human waste. A trash pit will be on site for non-flamable trash, and a burn pit for flammable trash.

Three sides of the reserve pit will be fenced with 5 strand barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

All trash must be contained and disposed of by: hauling from location, if not flammable.

If burning is required, a permit will be obtained from the State Fire Warden (Manager of Natural Resources - Ed Story)

Produced waste water will be confined to a (lined/unlined) pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

Other: The reserve pit will be kept fenced until dry, and then backfilled after getting permission to do so from the Hanksville BLM office. If any mud in the reserve pit is contaminated with oil during drilling operations, it will be hauled off site and disposed of at an approved disposal site.

8. Ancillary Facilities:

Camp facilities (will/will not) be required. They will be located: No camp facilities will be used. A trailer will be emplaced on the drilling pad by the mud logger.

9. Well Site Layout:

The reserve pit will be located: See Exhibit "F" for the layout of the rig, reserve pit, and burn and trash pits at the drillsite. See Exhibit "I" for the production facility layout (on the pad).

The top 6-10" inches of soil material will be removed from the location and stockpiled separately on the high side of the edge of the pad.
Topsoil along the access road will be reserved in place adjacent to the road.

Access to the well pad will be from: See Exhibits "D" and "F".

The trash pit will be located: _____

10. Plans for Restoration of Surface:

Immediately upon completion of drilling, the location and surrounding area will be cleared of all remaining debris, materials, trash and junk not required for production. Non-flamable trash and juncn will be hauled out.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry. _____

The operator or his contractor (will/will not) notify the Henry Mountain Resource Area at (801) 542-3461 forty-eight (48) hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

All disturbed areas will be recontoured to the approximate natural contours. _____

The stockpiled topsoil will be evenly distributed over the disturbed areas. Top soil will be stockpiled on the three uphill sides of locations during drilling. See Exhibit "F".

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface. _____

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage. - _____

Seed will broadcast rather than drilled

The following seed mixture will be used: _____

Indian ricegrass	3 lb/acre
Sand dropseed	2 lb/acre
Galleta	2 lb/acre
Mormon Tea	2 lb/acre
Globemallow	2 lb/acre

Goble Seed Company of Gunnison Utah has all five kinds of seed presently available.

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed. _____

Additional Requirements: _____

11. Surface and Mineral Ownership:

Surface - U.S.A.

Minerals - U.S.A.

Both administered by the Bureau of Land Management

12. Other Information:

There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

A cultural resource clearance (will/will not) be required before any construction begins. If any cultural resources are found during construction, all work will stop and the Area Manager will be notified.

This permit will be valid for a period of one (1) year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

13. Lessee's or Operator's Representative and Certification

Representative:

Name: Carl Friis
Address: 5401 West 10th Street
Greeley, Co. 80634
Phone No.: (303) 356-5699 Home (303) 356-1129

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by:
Bataa Oil, Inc.

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

6/28/87
Date

Carl Friis Land Manager
Name and Title

ONSITE

DATE: 6/12/87

PARTICIPANTS:

Carl Friis - Bataa Oil
Chuck Gale - Bataa Oil
Tim Keogh - Keogh Surveying
Carl Hunt - Hunts' Excavating Service
Carl Conner - Grand River Institute
John Branch - BLM Richfield
Glen Patterson - BLM Hanksville

TITLES:

Land Manager
Exploration Manager
Surveyor
Dirtwork Contractor
Archeologist
District Geologist
Area Manager

Your contact with the District Office is: John Keogh

Office Phone: (801) 896-8220

City: Richfield State: Utah

Resource Area Manager's address and contacts are:

Address: Hanksville, Utah

Your contact is: Glen Patterson

Office Phone: (801) 542-3461

RECEIVED
JUL 01 1987

**DIVISION OF
OIL, GAS & MINING**

**EXHIBIT H
of
APD for Bataa Oil, Inc.**

Cultural Resources Inventory Report
on
Proposed Gas Wells Lone Cedar 13-14, 21-14, 24-15, and 42-15,
And Related Access in Garfield County, Utah,
for
Bataa Oil, Inc.

GRI Project No. 8714

16 June 1987

Prepared by

Grand River Institute
P.O. Box 3543
Grand Junction, Colorado 81502

Utah BLM Antiquities Permit No. 86-UT-54939
Utah Division of State History Permit No. U-87-GB-316B



Carl E. Conner, Project Archaeologist

Submitted to

The Bureau of Land Management
Richfield District Office
150 E., 900 N.
Richfield, Utah 84701

Summary Report of Inspection for Cultural Resources

Project 
Authorization No.

U | - | 8 | 7 | - | G | B | - | 3 | 1 | 6 | B

1 4 10

Report Acceptable Yes 4 No

Mitigation Acceptable Yes ☒ No ☐
Comments:

1. Report Title L|o|n|e| |C|e|d|a|r| |1|3|-|1|4| |w|e|l|l| |a|n|d| |a|c|c|. 40
2. Development Company Bataa Oil, Inc., Greeley, Colorado
3. Report Date 0|6| 16 |1|9|8|7| 4. Antiquities Permit No. 86-UT-54939
5. Responsible Institution G|r|a|n|d| |R|i|v|e|r| |I|n|s| County Garfield
6. Fieldwork Location: TWN 3|1|S| Range 1|2|E| Section(s) 1|4| 70 71 72 73 74 75 76 77
- TWN 78 81 Range 82 85 Section(s) 86 87 88 89 90 91 92 93
7. Resource Area H|M| TWN 94 97 Range 98 101 Section(s) 102 103 104 105 106 107 108 109
- PO: PONY EXPRESS, BR: BEAR RIVER, PR: PRICE RIVER, WS: WARM SPRINGS
BC: BOOK CLIFFS, H: HOUSE RANGE, SE: SEVIER RIVER
HM: HENRY MOUNTAINS, BE: BEAVER RIVER, DX: DIXIE
KA: KANAB, ES: ESCALANTE, SJ: SAN JUAN, GR: GRAND
SR: SAN RAFAEL, DM: DIAMOND MOUNTAIN
- Fill in spaces 65, 69, 81, 85, 97, 101 Only if:
V: Vernal Meridian
H: Half Township

8. Description of Examination Procedures: A 100 % pedestrian survey was conducted by walking a pattern of concentric circles around the center stake to a diameter of 750', encompassing roughly 10 acres. The two-track road to be upgraded was walked in two zigzag transects, one to either side of the road, to cover a corridor 200' wide.

9. Linear Miles Surveyed and/or Definable Acres Surveyed and/or Legally Undefinable Acres Surveyed
10. Inventory Type
11. Description of Findings (attach appendices, if appropriate)
12. Number Sites Found: No sites = 0
13. Collection:

- 14. Actual/Potential National Register Properties Affected:**

None.

15. Literature Search, Location/Date: Richfield District Office, 6/8/87
Division of State History, 6/9/87

- 16. Conclusion/Recommendations:**

No further consideration of cultural resources need be given the surface extent of this project.

17. Signature of Administrator & Field Supervisor: Administrator Carl E. Conner
Carl E. Conner
Field Supervisor Carl E. Conner

*For extra locationals use additional 8100-3 forms.

UT 8100-3
(2/85)

Summary Report of Inspection for Cultural Resources

1. Report Title L|o|n|e| |C|l|e|d|a|r| |2|1|-|1|4| |w|e|l|l| |l|a|n|d| |a|c|c|. 40

2. Development Company Bataa Oil, Inc., Greeley, Colorado

3. Report Date 0|6| 16 1|1|9|8|7| 4. Antiquities Permit No. 86-UT-54939

5. Responsible Institution G|r|a|n|d| |R|i|v|e|r| |I|n|s| County Garfield

6. Fieldwork Location: TWN 3|1|S| Range 1|2|E| Section(s) 1|4|

7. Resource Area H|M| TWN Range Section(s)

80 = PONY EXPRESS, 8R = BEAR RIVER, PR = PRICE RIVER, WS = WARM SPRINGS
BC = BOOK CLIFFS, HR = HOUSE RANGE, SE = SEVIER RIVER
HM = HENRY MOUNTAINS, BE = BEAVER RIVER, DX = DIXIE
KA = KANAB, ES = ESCALANTE, SJ = SAN JUAN, GR = GRAND
SR = SAN RAFAEL, DM = DIAMOND MOUNTAIN.

FW in spaces 65, 69, 81, 85, 97, 101 Only if:
V = Vernal Meridian
H = Half Township

9. Linear Miles Surveyed and/or Definable Acres Surveyed and/or Legally Undefinable Acres Surveyed

0	1	5					
112							117
118							23
	1	0					

12. Number Sites Found: 0
No sites = 0

UT 3100-3
(2/85)

U.S.
Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

For BLM Use Only
BLM Report ID No. U-187-G-B-1315B
Report Acceptable Yes ☐ No ☐
Mitigation Acceptable Yes ☐ No ☐
Comments: _____

1. Report Title L|o|n|e| |C|e|d|a|r| |2|4|-|1|5| |w|e|l|l| |a|n|d| |a|c|c|.
11 40

2. Development Company Bataa Oil, Inc., Greeley, Colorado

3. Report Date 0|6| 16 1|9|8|7|
41 42 43 46
MONTH YEAR

4. Antiquities Permit No. 86-UT-54939

5. Responsible Institution G|r|a|n|d| |R|i|v|e|r| |I|n|s| County Garfield
47 61

6. Fieldwork Location: TWN 3|1|S| Range 1|2|E| Section(s) 1|5|
62 63 66 69 70 71 72 73 74 75 76 77
TWN Range Section(s)
78 81 82 85 86 87 88 89 90 91 92 93

7. Resource Area H|M| TWN Range Section(s)
110 111 94 97 98 101 102 103 104 105 106 107 108 109

20 = PONY EXPRESS, SR = BEAR RIVER, PR = PRICE RIVER, WS = WARM SPRINGS
SC = SPOOK CLIFFS, HR = HOUSE RANGE, SE = SEVIER RIVER
HM = HENRY MOUNTAINS, BE = BEAVER RIVER, DX = DIXIE
KA = KANAB, ES = ESCALANTE, SJ = SAN JUAN, GR = GRAND
SR = SAN RAFAEL, DM = DIAMOND MOUNTAIN,

FMI in spaces 65, 69, 81, 85, 97, 101 Only if:
V = Vernal Meridian
H = Half Township

8. Description of Examination Procedures: A 100 % pedestrian survey was conducted by walking a pattern of concentric circles around the center stake to a diameter of 750', encompassing roughly 10 acres. The two-track road to be upgraded was walked in two zigzag transects, one to either side of the road, to cover a corridor 200' wide.

9. Linear Miles Surveyed 0|1|1|5|
112 117

Definable Acres Surveyed
118 123

* Legally Undefinable Acres Surveyed 1|0|
124

(* A parcel hard to cadastrally locate i.e., center of section)

10. Inventory Type I|
130

R = Reconnaissance
I = Intensive
S = Statistical Sample

11. Description of Findings (attach appendices, if appropriate) 12. Number Sites Found: 0|
No sites = 0 131 135
An isolated find consisting of two utilized flakes was found about 200' west of the center stake of the well and just west of the two-track.

13. Collection: N| Y = Yes, N = No
136

14. Actual/Potential National Register Properties Affected:

None.

15. Literature Search, Location/Date: Richfield District Office, 6/8/87
Division of State History, 6/9/87

16. Conclusion/Recommendations:

The isolated find is considered non-significant.
No further consideration of cultural resources need be given the surface extent of this project.

17. Signature of Administrator & Field Supervisor: Administrator Carl E. Conner
Carl E. Conner
Field Supervisor Carl E. Conner

*For extra locationals use additional 8100-3 forms.

8100-3
(2/85)

U.S.
Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

For BLM Use Only

BLM Report ID No. U-187-G-B-3116B

Report Acceptable Yes ☐ No ☐

Mitigation Acceptable Yes ☐ No ☐

Comments: _____

1. Report Title Lionel Cedar 42-115 well land acc.

2. Development Company Bataa Oil, Inc., Greeley, Colorado

3. Report Date 06 16 11987

4. Antiquities Permit No. 86-UT-54939

5. Responsible Institution Graind Rivier Ins County Garfield

6. Fieldwork Location: TWN 31S Range 12E Section(s) 15
62 63 66 69 70 71 72 73 74 75 76 77
TWN 78 81 Range 82 85 Section(s) 86 87 88 89 90 91 92 93

7. Resource Area HM TWN 94 97 Range 98 101 Section(s) 102 103 104 105 106 107 108 109

PO = PONY EXPRESS, BR = BEAR RIVER, PR = PRICE RIVER, WS = WARM SPRINGS
CC = COOK CLIFFS, HR = HOUSE RANGE, SE = SEVIER RIVER
HM = HENRY MOUNTAINS, BE = BEAVER RIVER, DX = DIXIE
KA = KANAB, ES = ESCALANTE, SJ = SAN JUAN, GR = GRAND
SR = SAN RAFAEL, DM = DIAMOND MOUNTAIN,

FW in spaces 65, 69, 81, 85, 97, 101 Only if:
V = Vernal Meridian
H = Half Township

8. Description of Examination Procedures: A 100 % pedestrian survey was conducted by walking a pattern of concentric circles around the center stake to a diameter of 750', encompassing roughly 10 acres. The two-track road to be upgraded was walked in two zigzag transects, one to either side of the road, to cover a corridor 200' wide.

9. Linear Miles Surveyed and/or 0.175

10. Inventory Type I

Definable Acres Surveyed and/or 118 123

R = Reconnaissance
I = Intensive
S = Statistical Sample

* Legally Undefinable Acres Surveyed 1.0

(* A parcel hard to cadastrally locate i.e., center of section)

11. Description of Findings (attach appendices, if appropriate)

12. Number Sites Found: 0
No sites = 0 131 135

An isolated find consisting of a single chalcedony flake was found about 500' west of the well location and just south of the two-track.

13. Collection: N Y = Yes, N = No 136

14. Actual/Potential National Register Properties Affected:
None.

15. Literature Search, Location/Date: Richfield District Office, 6/8/87
Division of State History, 6/9/87

16. Conclusion/Recommendations:

The isolated find is considered non-significant.
No further consideration of cultural resources need be given the surface extent of this project.

17. Signature of Administrator & Field Supervisor: Administrator

Carl E. Conner

Field Supervisor

Carl E. Conner

*For extra locationals use additional 8100-3 forms.

8100-3
(2/85)

Introduction

For compliance with Executive Order 11593, the Historic Preservation Act of 1966, the Archaeological Resources Protection Act of 1979, and other federal legislation governing the protection and management of cultural resources on publicly owned lands, Carl E. Conner of Grand River Institute (GRI) conducted an intensive (Class III) cultural resources inventory of four proposed gas well locations and their related access roads in Garfield County, Utah, for Bataa Oil, Inc., of Greeley, Colorado. Four ten-acre plots and approximately 1.8 miles of existing, two-track access roads were inspected on 12 June 1987.

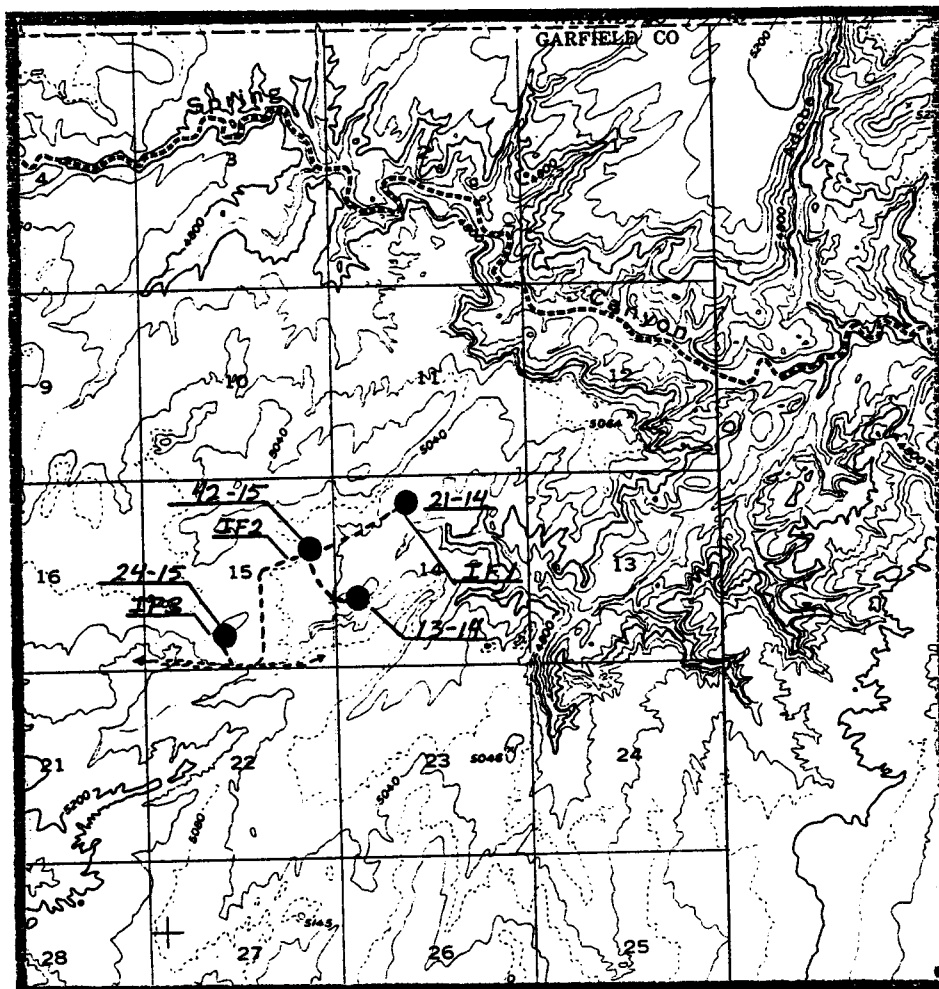
The project occurs on Bureau of Land Management (BLM) lands in the Lone Cedar Flat area, ten miles east of the Henry Mountains. The location of the wells and access is (see Figure 1):

- Lone Cedar 13-14,
T. 31S., R. 12E., Section 14, NW $\frac{1}{4}$ SW $\frac{1}{4}$ (1780' FSL, 460' FWL);
related access in Sec. 14, NW $\frac{1}{4}$ SW $\frac{1}{4}$ and Sec. 15, C E $\frac{1}{2}$ E $\frac{1}{2}$;
- Lone Cedar 21-14,
T. 31S., R. 12E., Section 14, NE $\frac{1}{4}$ NW $\frac{1}{4}$ (660' FNL, 1980' FWL);
related access in Sec. 14, NW $\frac{1}{4}$ and Sec. 15, SE $\frac{1}{4}$ NE $\frac{1}{4}$;
- Lone Cedar 24-15,
T. 31S., R. 12E., Section 15, SE $\frac{1}{4}$ SW $\frac{1}{4}$ (860' FSL, 2180' FWL);
related access in Sec. 15, SE $\frac{1}{4}$ SW $\frac{1}{4}$;
- Lone Cedar 42-15,
T. 31S., R. 12E., Section 15, SE $\frac{1}{4}$ NE $\frac{1}{4}$ (1960' FNL, 580' FEL);
related access in Sec. 15, E $\frac{1}{2}$;

Description of Project Area

The project area is located on the eastern periphery of the Henry Mountain physiographic subdivision of Utah, near the boundary of the Inner Canyonlands. It is situated on the southern extension of the Burr Desert, a sandy, dry area with sparse vegetation. Elevations range from 4920' to 5040'. The nearest permanent water, as shown on the quadrangle map, is Poison Spring, about 5 miles west/northwest of the study area; however, an intermittent wash lies just south of the well locations.

Climatically, the area is characterized as a cold desert and supports a sand sage vegetation community within the Shadscale Zone. Soils are mostly sandy (creating dunes), but there are areas of gravels near the washes. Faunal inhabitants of this desert include antelope, cottontails, jackrabbits, kangaroo rats, and various eagles, hawks, owls, lizards, and snakes.



Bull Mountain Quadrangle
 Utah—Garfield County
 1952
 USGS 15' series (topographic)
 Scale 1:62500
 Contour interval 80 feet

Figure 1. Cultural resources inventory report on proposed gas wells Lone Cedar 13-14, 21-14, 24-15, and 42-15, and related access in Garfield County, Utah, for Bataa Oil, Inc. Map shows locations of wells and isolated finds of cultural resources; area surveyed for cultural resources is highlighted. [GRI 8714, 6/16/87]

Known Cultural Resources

A files search through the Division of State History and the BLM Richfield District Office revealed two known sites (42GA560 and 42GA561) in the area. These were recorded in 1966 and it is apparent from the locational descriptions--which relate the sites' position to North Wash--that they are actually in T.32S., R.12E., Section 14, rather than in T.31S. as previously believed. There are no records of other sites or surveys in the immediate area. However, human occupation of the region is known to have occurred for nearly 13,000 years (Holmer, 1986); evidence of the Paleo-Indian Tradition, the Archaic Tradition, the Fremont Culture, and the Historic Paiutes has been found.

Field Methods

A 100% pedestrian survey of the project area was conducted by walking a pattern of concentric circles around the center stakes of the proposed well locations to a diameter of 750'. The area inventoried encompassed roughly 10 acres at each well site. The two-track roads to be upgraded which connect the well locations to the main county road were walked in two zigzag transects, one to either side of the existing two-tracks, to cover corridors 200' wide. A total of approximately 84 acres was surveyed (40 for the well locations, 44 for the roads).

Cultural resources were sought as surface exposures and, if found, were to be characterized as sites or isolated finds. Sites were defined by the presence of six or more artifacts and/or significant feature(s) indicative of patterned human activity. Isolated finds were defined by the presence of one to five artifacts apparently of surficial nature.

Study Findings

Three isolated finds were made during the course of the survey. The first consisting of three artifacts was found about 150' west of the center stake of 21-14. The second was a single flake located about 500' west of 42-15, just south of the two-track road. The third was two utilized flakes found about 200' west of the 24-15 location and just west of the two-track access road to the proposed well. None of these finds is diagnostic. All appear surficial in nature and are considered non-significant. (See attached isolated find forms for additional information.)

Recommendations

No further consideration of cultural resources need be given the surface extent of this project.

Reference Cited

Holmer, Richard N.

1986 Common projectile points of the Intermountain West. In
Anthropology of the Desert West, University of Utah Anthropo-
logical Papers No. 110. Salt Lake.

ISOLATED FIND FORMS

ISOLATED FIND RECORD

1) Isolated Find No.: 8714 - IF 1 (2) County: Garfield (3) State: Utah

I. LOCATION

4) Legal Location: 1/4, 1/4, NE 1/4, NW 1/4, Sec. 14 T 31S R 12E PM SLPM

5) USGS Quad: Name Bull Mountain Size 15' Date 1952

6) UTM: Zone 12, 5 3 8 6 5 0mE, 4 2 1 8 5 0 0mN.

II. ARCHAEOLOGICAL DATA:

7) Artifacts:

2 quartzite flakes and one utilized quartz flake.

8) Inferred function/description:

Debitage

9) Cultural Affiliation unknown Time Period unknown BC AD

10) IF Dimensions X

III. ENVIRONMENTAL DATA:

11) Elev. 4960 ft. 1512 m. 12) Soil Sandy

13) Topography bench abv. dry wash 14) Slope: site 0-3° surrounding same

15) Nearest water: name/nature intermittant wash elev. 4020 dist. 200m direction SE

Nearest permanent water unknown elev. dist. direction

16) Veg. on site sand sage community 17) Surrounding veg. same

Additional Comments:

IV. ADDITIONAL INFORMATION: (Narrative, drawings, sketch map)

V. REFERENCE DATA:

18) Collection: yes no X describe

19) Repository: 20) Landowner BLM

21) Report title Lone Cedar 21-14 22) Recorder Carl E. Conner

23) Affiliation Grand River Institute 24) Date 6/16/87

(after Colo.OSAC Form No. 602)

ISOLATED FIND RECORD

1) Isolated Find No.: 8714 - IF 2 (2) County: Garfield (3) State: Utah

I. LOCATION

4) Legal Location: 1/4, 1/4, SW 1/4, NE 1/4, Sec. 15 T 31S R 12E PM SLPM

5) USGS Quad: Name Bull Mountain Size 15' Date 1952

6) UTM: Zone 12, 5 3 7 6 0 0mE, 4 2 1 8 0 4 0mN.

II. ARCHAEOLOGICAL DATA:

7) Artifacts:

One chalcedony flake, medium interior

8) Inferred function/description:

Debitage

9) Cultural Affiliation unknown Time Period unknown BC
AD

10) IF Dimensions X

III. ENVIRONMENTAL DATA:

11) Elev. 5000 ft. 1524 m. 12) Soil Sandy

13) Topography Swale bottom 14) Slope: site 0-3° surrounding same

15) Nearest water: name/nature intermittant wash elev. 4980' dist. 600m direction SE

Nearest permanent water unknown elev. dist. direction

16) Veg. on site sand sage community 17) Surrounding veg. same

Additional Comments:

IV. ADDITIONAL INFORMATION: (Narrative, drawings, sketch map)

V. REFERENCE DATA:

18) Collection: yes no X describe

19) Repository: 20) Landowner BLM

21) Report title Lone Cedar 42-15 22) Recorder Carl E. Conner

23) Affiliation Grand River Institute 24) Date 6/16/87

(after Colo. OSAC Form No. 602)

ISOLATED FIND RECORD

1) Isolated Find No.: 8714 - IF 3 (2) County: Garfield (3) State: Utah

I. LOCATION

4) Legal Location: 1/4, 1/4, SE 1/4, SW 1/4, Sec. 15 T 31S R 12E PM SLPM

5) USGS Quad: Name Bull Mountain Size 15' Date 1952

6) UTM: Zone 12, 5 3 6 9 9 0 mE, 4 2 1 7 4 0 0 mN.

II. ARCHAEOLOGICAL DATA:

7) Artifacts:

Two large utilized flakes; one chert, the other quartzite

8) Inferred function/description:

Scraping and cutting

9) Cultural Affiliation unknown Time Period unknown BC AD

10) IF Dimensions X

III. ENVIRONMENTAL DATA:

11) Elev. 5000 ft. 1524 m. 12) Soil Sandy

13) Topography Swale bottom 14) Slope: site 0-3° surrounding same

15) Nearest water: name/nature intermittant elev. 5000' dist. 400m direction SE

Nearest permanent water unknown elev. dist. direction

16) Veg. on site sand sage community 17) Surrounding veg. same

Additional Comments:

IV. ADDITIONAL INFORMATION: (Narrative, drawings, sketch map)

V. REFERENCE DATA:

18) Collection: yes no X describe

19) Repository: 20) Landowner BLM

21) Report title Lone Cedar 24-15 22) Recorder Carl E. Conner

23) Affiliation Grand River Institute 24) Date 6/16/87

(after Colo. OSAC Form No. 602)

071515

OPERATOR Batoa Oil, Inc. DATE 7-2-87
WELL NAME Lone Cedar Federal # 42-15
SE NE SEC 15 T 31S R 12E COUNTY Garfield

43-017-30134
API NUMBER

Fed.
TYPE OF LEASE

CHECK OFF:

☒ PLAT

☒ BOND

☒ NEAREST WELL

☒ LEASE

☒ FIELD

☒ POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 920'
new water permit

APPROVAL LETTER:

SPACING: ☐ 203 _____ UNIT

☒ 302

☐ _____ CAUSE NO. & DATE

☐ 302.1

STIPULATIONS:

1- Water



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 9, 1987

Bataa Oil, Inc.
5401 West 10th Street
Greeley, Colorado 80634

Gentlemen:

Re: Lone Cedar Federal 42-15 - SE NE Sec. 15, T. 31S, R. 12E
1960' FNL, 580' FEL - Garfield County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. All well operators are responsible for sending an Entity Action Form to the Division of Oil, Gas and Mining within five working days of the time that a new well is spudded or a change in operations or interests necessitates a change in Entity status.
3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
4. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.

Page 2
Bataa Oil, Inc.
Lone Cedar Federal 42-15
July 9, 1987

5. Compliance with the requirements and regulations of Rule 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-017-30134.

Sincerely, .



R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals
D. R. Nielson
8159T

CORRECTED COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other rec. instructions on side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Bataa Oil, Inc

3. ADDRESS OF OPERATOR

5401 W. 10th Street, Greeley, CO 80634

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

Township 31 South, Range 12 East

At proposed prod. zone

Section 15: 1960' FNL & 580' FEL

same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Twenty-two miles south of Hanksville

16. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

580'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1842'

16. NO. OF ACRES IN LEASE

8960

19. PROPOSED DEPTH

5500'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40-

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4977' GR

22. APPROX. DATE WORK WILL START*

7/20/87

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5	200'	250 sacks Est fill-200'
11"	8 5/8"	24.0	1300'	250 sacks Est fill-300'
7 7/8"	5 1/2"	15.5	5500'	500 sacks Est fill-800'

1. Drill 17 1/2" surface hole and set 13 3/8" casing to 200 with returns to surf
2. Drill 11" hole to 1300' or into the Chinle, set 8 5/8" casing if necessary
3. Drill 7 7/8" hole to 5500' or into the Desert Creek Formation.
4. Core two 30' sections of the Desert Creek, run Density/Porosity, Dual Induction and Sonic logs, DST if logs are promising.
5. Run 5 1/2" casing from surface or bottom of 8 5/8" casing, to T.D., bond log and perforate, stimulate if needed.

EXHIBITS ATTACHED:

- | | |
|------------------------------------|--|
| A. Drilling Program | F. Drill Pad Layout-Cut and Fill Section |
| B. Thirteen-Point Surface Use Plan | G. One Mile Radius Map |
| C. Blowout Preventer Diagram | H. Archeologist's Site Report |
| D. Access Road Map To Location | I. Proposed Production Facilities |
| E. Existing Road Map | J. Designation of Operator/ |

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Carl Friis Carl Friis TITLE Land Manager

DATE 7/8/87

(This space for Federal or State office use)

PERMIT NO. 43-017-30134

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE 7-13-87

BY: John R. B...

WELL SPACING: J

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

081301

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

API #43-017-30134

NAME OF COMPANY: BATAA OIL INC.

WELL NAME: LONE CEDAR FEDERAL 42-15

SECTION SE NE 15 TOWNSHIP 31S RANGE 12E COUNTY GARFIELD

DRILLING CONTRACTOR Aztec Drilling

RIG # 301

SPODDED: DATE 8-11-87

TIME 10:15 PM

HOW Rotary

DRILLING WILL COMMENCE

REPORTED BY Carl Friis

TELEPHONE # (303) 356-5699

DATE 8-12-87 SIGNED CR/AS

FILING FOR WATER IN THE STATE OF UTAH

Rec. by ctFee Rec. 30.00Receipt # 22724

Microfilmed _____

Roll # Dug43-017-30134JUL 27 1987
TEMPORARY

RICHFIELD AREA

APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

081302

* WATER RIGHT NO. 95 - 4591* APPLICATION NO. AT 62715

1. *PRIORITY OF RIGHT: _____ * FILING DATE: _____

2. OWNER INFORMATION

Name(s): BATAA OIL c/o CARL FRIS * Interest: 100% %Address: 5401 WEST 10TH STREETCity: GREELEY State: COLORADO Zip Code: 80631Is the land owned by the applicant? Yes _____ No X

(If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: _____ cfs and/or 2 ac-ft4. SOURCE: Cottonwood Wash * DRAINAGE: COLORADO RIVER

which is tributary to _____

which is tributary to _____

POINT(S) OF DIVERSION: _____ COUNTY: GARFIELD1) S 1300 Ft. & E 1900 Ft. from the NW cor. Sec. 10, 2) S 700 Ft. & E 2200 Ft. from the NW cor. Sec. 15 both in T31S, R12E SLBM.Description of Diverting Works: Small basins in North Wash* COMMON DESCRIPTION: (22 miles South of Hanksville)

5. POINT(S) OF REDIVERSION

The water will be rediverted from _____ at a point: _____

Description of Rediverting Works: (22 miles South of Hanksville)

6. POINT(S) OF RETURN

The amount of water consumed will be _____ cfs or _____ ac-ft

The amount of water returned will be _____ cfs or _____ ac-ft

The water will be returned to the natural stream/source at a point(s): _____

7. STORAGE

Reservoir Name: _____ Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres

Height of dam: _____ feet

Legal description of inundated area by 40 acre tract(s): _____

RECEIVED

AUG 12 1987

* These items are to be completed by the Division of Water Rights

DIVISION OF OIL
& MINING

Appropriate

WATER RIGHTS DATA BASE
 ENTERED - DATE 9/13/87 BY 22
 VERIFIED - DATE 9/13/87 BY 22

8. List any other water rights which will supplement this application None

9. NATURE AND PERIOD OF USE

Irrigation: From _____ to _____
Stockwatering: From _____ to _____
Domestic: From _____ to _____
Municipal: From _____ to _____
Mining: From _____ to _____
Power: From _____ to _____
Other: From August 1, 1987 to August 1, 1988
July 31

10. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
Stockwatering (number and kind): _____
Domestic: _____ Families and/or _____ Persons
Municipal (name): _____
Mining: _____ Mining District in the _____ Mine
Ores mined: _____
Power: Plant name: _____ Type: _____ Capacity: _____
Other (describe): WATER USED TO DRILL OIL WELLS

11. PLACE OF USE

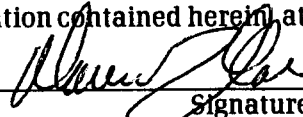
Legal description of place of use by 40 acre tract(s):
1. Lone Cedar Federal #42-15 Well: SE $\frac{1}{4}$ NE $\frac{1}{4}$ - Section 15- T31S, R12E
2. Any of: NE $\frac{1}{4}$ NW $\frac{1}{4}$ - Section 14- T31S, R12E } Location will be chosen
NW $\frac{1}{4}$ SW $\frac{1}{4}$ - Section 14- T31S, R12E } based upon results of
SE $\frac{1}{4}$ SW $\frac{1}{4}$ - Section 15- T31S, R12E } #42-15 Well

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of same size if necessary):

THIS APPLICATION IS TEMPORARY. WATER WILL BE USED
FROM AUGUST 1, 1987 TO AUGUST 1, 1988 Water will be
used solely for oil well drilling operations.

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein at the time of filing, rests with the applicant(s).



Signature of Applicant(s)
David J. Calvin
President- Bataa Oil, Inc.

RECEIVED
AUG 12 1987
DIVISION OF OIL
GAS & MINING

STATE ENGINEER'S ENDORSEMENT

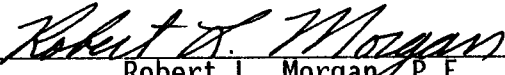
WATER RIGHT NUMBER: 95 - 4591

APPLICATION NO. T62715

1. July 27, 1987 Application received.
 2. August 3, 1987 Application designated for APPROVAL by MSA and SG.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated August 7, 1987, subject to prior rights and this application will expire on August 7, 1988.


Robert L. Morgan, P.E.
State Engineer

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.	
2. NAME OF OPERATOR Bataa Oil, Inc., 5401 West 10th Street		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 5401 West 10th Street, Greeley, CO 80634		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Township 31 South, Range 12 East Section 15: 1960' FNL & 580' FEL		8. FARM OR LEASE NAME Lone Cedar Federal	
14. PERMIT NO. 43-017-30134		9. WELL NO. #42-15	
15. ELEVATIONS (Show whether OF, RT, GR, etc.) 4977' GR, 4991' KB		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SUBSET OR AREA T31S, R12E Section 15: SE $\frac{1}{4}$ NE $\frac{1}{4}$	
		12. COUNTY OR PARISH Garfield	
		13. STATE Utah	

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AUG 17 1987

DIVISION OF OIL
GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Spudding <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The Bataa Oil, Inc. Lone Cedar Federal #42-15 was spudded at 10:15 P.M. 8/11/87. Drilling began on a hole for the surface casing with an 11" bit, with the hole to be reamed to 17 $\frac{1}{2}$ " after having been drilled to 215'.

18. I hereby certify that the foregoing is true and correct

SIGNED Carl Friis Carl FriisTITLE Land ManagerDATE 8/13/87

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR Bataa Oil, Inc.</p> <p>3. ADDRESS OF OPERATOR 5401 West 10th Street, Greeley, CO 80634</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Township 31 South, Range 12 East Section 15: 1960' FNL & 580' FEL</p> <p>14. PERMIT NO. 43-017-30134</p>		<p style="text-align: center;">RECEIVED AUG 17 1987 DIVISION OF OIL GAS & MINING</p> <p>5. LEASE DESIGNATION AND SERIAL NO.</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Lone Cedar Federal</p> <p>9. WELL NO. #42-15</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLE. AND SUBV. OR AREA T31S, R12E Section 15: SE1/4NE1/4</p> <p>12. COUNTY OR PARISH Garfield</p> <p>13. STATE Utah</p>	
<p>15. ELEVATIONS (Show whether OF, RT, CR, etc.) 4977' GR, 4991' KB</p>			

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/> B.O.P. Test	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Tested Blow Out Preventer for Aztec Well Servicing Rig #301 at 12 Midnight 8/13/87, till 12:30A.M. 8/14/87. Tested to 1200 PSI with 201' of N-80 and K-55 Surface Casing and the B.O.P. filled with water. Pressure held. Tested Choke Manifold to 1200 PSI 12:30-1 A.M. Tested Pipe Rams to 1200 PSI 1-1:30 A.M. Both held pressure.

18. I hereby certify that the foregoing is true and correct

SIGNED Carl Friis TITLE Land Manager

DATE 8/14/87

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a well.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		AUG 17 1987		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Bataa Oil, Inc.		DIVISION OF OIL GAS & MINING		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 082407
3. ADDRESS OF OPERATOR 5401 West 10th Street, Greeley, CO 80634				7. UNIT AGREEMENT NAME Lone Cedar Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface T31S, R12E, Sec. 15: 1960' FNL & 580' FEL				8. WELL NO. #42-15
14. PERMIT NO. 43-017-30134		15. ELEVATIONS (Show whether of FT. OR M.) 4977' GR, 4991' KB		10. FIELD AND POOL, OR WILDCAT Wildcat
				11. SEC., T., R., M., OR B.L. AND SUBVY OR AREA T31S, R12E Section 15: SE+NE+
				12. COUNTY OR PARISH Garfield
				13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

Cementing Surface Casing
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Ran 5 Joints of 13 3/8" N-80 and K-55 Surface Casing 4-6 P.M. 8/12/87. Landed at 215' KB = 201' GR. Pumped 220 sacks of 50-50 Pos. Cement with FloCeal starting at 7:30 P.M. down casing and up annulus between casing and 17 1/2" hole. Cement started up backside, but failed to get returns to surface. Pumped an additional 50 sacks of Standard cement at 8:45 P.M. down a 1" pipe run in the annulus to the top of cement from the first pump job. Got initial returns to surface, but cement level fell to approx. 50' below surface in 1/2 hour. Called for more cement. Ran 25 sacks of Standard cement with 10lbs/sack of CaCl₂ and 25lbs/sack Gilsonite via 1" pipe down the annulus at 9 A.M. 8/13/87. Got good returns to surface. Shut down rig to let cement dry. Halliburton (Cortez, CO office) was contractor for all three cement jobs.

18. I hereby certify that the foregoing is true and correct

SIGNED Carl Friis - Carl Friis TITLE Land ManagerDATE 8/14/87

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBM. TRIPPLICATE
 (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to surface.
 Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
 AUG 17 1987

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		3. LEASE DESIGNATION AND SERIAL NO. 082408	
2. NAME OF OPERATOR Bataa Oil, Inc.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 5401 West 10th Street, Greeley, CO 80634		8. FARM OR LEASE NAME Lone Cedar Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Township 31 South, Range 12 East Section 15: 1960' FNL & 580' FEL		9. WELL NO. #42-15	
14. PERMIT NO. 43-017-30134		10. FIELD AND POOL, OR WILDCAT Wildcat	
15. ELEVATIONS (Show whether OF, ST, GR, etc.) 4977' GR, 4991' KB		11. SEC., T., R., M., OR BLE. AND SUBV. OR AREA T31S, R12E Section 15: SE1/4NE1/4	
		12. COUNTY OR PARISH Garfield	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) B.O.P. Test	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Tested Blow Out Preventer for Aztec Well Servicing Rig #301 at 12 Midnight 8/13/87, till 12:30 A.M. 8/14/87. Tested to 1200 PSI with 201' of N-80 and K-55 Surface Casing and the B.O.P. filled with water. Pressure held. Tested Choke Manifold to 1200 PSI 12:30-1 A.M. Tested Pipe Rams to 1200 PSI 1-1:30 A.M. Both held pressure.

18. I hereby certify that the foregoing is true and correct

SIGNED Carl Friis TITLE Land Manager

DATE 8/14/87

(This space for Federal or State office use)

APPROVED BY _____
 CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

Duly

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		AUG 20 1987		5. LEASE DESIGNATION AND SERIAL NO. U-50955
2. NAME OF OPERATOR Bataa Oil, Inc.		DIVISION OF OIL GAS & MINING		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 082403
3. ADDRESS OF OPERATOR 5401 West 10th Street, Greeley, Colorado 80634				7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Township 31 South, Range 12 East Section 15: 1960' FNL & 580' FEL				8. FARM OR LEASE NAME Lone Cedar Federal
				9. WELL NO. 42-15
				10. FIELD AND POOL, OR WILDCAT Wildcat
				11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA T31S, R12E Section 15: SE+NE+1
14. PERMIT NO. 43-017-30134	15. ELEVATIONS (Show whether OF, RT, GR, etc.) 4977' GR 4991' KB	12. COUNTY OR PARISH Garfield		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☒ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Water entering hole, in the depths above the Chinle formation, caused mist/foam to have to be added to the air stream to continue drilling with air. Water coming from around 600 or 700' to 933', somewhere in the Navajo/Kayenta/Wingate section. Decided to run 8 5/8" intermediate string as contemplated in the drilling permit, but to run it to 1702' GR, rather than the 1300' anticipated in the permit. This was done to get most of the Moenkopi formation (top 1170') behind pipe, as there was a 100' interval near the top of the Moenkopi that was soft and might cause problems with pieces of shale breaking off into the hole while it was being drilled. Called John Branch of the Richfield District BLM Office around noon on 8/15/87 to inform him of our plans. Ran 39 joints of 8 5/8" J-55 Casing starting at 6:00 A.M. 8/16/87. Circulated to prepare hole for cement. Pumped 160 sacks of Halliburton Premium cement, with Flocele and 3 sacks of CaCl₂ 11:36-12:12 A.M. Shut down to let cement set. Nippled up Blow Out Preventer and pressure tested B.O.P. 4:30-5:00 A.M. 8/17/87. Pressure held. Drilled out cement starting 6:00 A.M. 8/17/87.

18. I hereby certify that the foregoing is true and correct

SIGNED Carl Friis - Carl FriisTITLE Land ManagerDATE 8/16/87

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

RECEIVED

AUG 20 1987

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
3 TRIAD CENTER, SUITE 350
SALT LAKE CITY, UT 84180-1203

DIVISION OF OIL
GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLINGWell Name & Number Lone Cedar Federal #42-15Operator Bataa Oil, Inc. Address 5401 West 10th Street, Greeley CO
P.O. Box 100 80634Contractor Aztec Well Servicing Address Aztec, NM 87410Location SE 1/4 NE 1/4 Sec. 15 T. 31S R. 12E County GarfieldWater Sands

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
Around		Very little pressure	
1.. 600-700'	933'	Flowed enough to have to	Fresh
		add mist/foam to air in	
2.		drillpipe, foam brought up	
		enough water with it to cause	
3.		some water to run out the end	
		of the air relief line (bloie line).	
4.		We do not think the water would have	
		been evident without the air and foam	
5.		to relieve all pressure on the (over)	

(Continue on reverse side if necessary)

Formation Tops Navajo, Kayenta, Wingate: ?
Chinle: 933'

Remarks

- NOTE: (a) Report on this form as provided for in Rule 806, Oil and Gas Conservation General Rules.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Robert L. Morgan, State Engineer

1636 West North Temple • Suite 220 • Salt Lake City, UT 84116-3156 • 801-533-6071

August 7, 1987

AUG 20 1987

DIVISION OF OIL
GAS & MINING

Bataa Oil
c/o Carl Friis
5401 West 10th Street
Greeley, CO 80631

Dear Applicant:

RE: TEMPORARY APPLICATION
NUMBER 95-4591 (T62715)

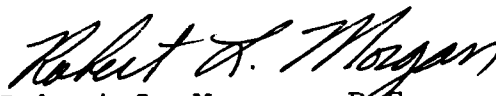
Enclosed is a copy of approved Temporary Application Number 95-4591 (T62715). This is your authority to construct your works and to divert the water for the uses described.

While this approved application does give you our permission to divert and use water, it does not grant easements through public or private lands in order to gain access to the source nor to convey the water to the place of use, nor does this approval eliminate the need for such other permits as may be required by this Division or any other agency in implementing your diversion.

This application will expire August 7, 1988, and it is expected that no diversion or use of the water will be done after that date unless another proposal has been made and approved.

Your contact with this office, should you need it, is with the Area Engineer, M. Stanley Adams. The telephone number is (801)896-4429.

Sincerely,


Robert L. Morgan, P.E.
State Engineer

RLM:rc

Encl.: Copy of Approved Temporary Application

**FILING FOR WATER IN THE
STATE OF UTAH** 1987

Rec. by

Fee Rec. 302

Receipt # 2724

Microfilmed _____

Roll # _____

JUL 27 1987
TEMPORARY

RICHFIELD AREA

APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

* WATER RIGHT NO. 95 - 4591

* APPLICATION NO. AT 62715

1. *PRIORITY OF RIGHT: _____ * FILING DATE: _____

2. OWNER INFORMATION

OWNER INFORMATION
Name(s): BATAA OIL c/o CARL FRIS * Interest: 100% %

Address: 5401 WEST 10TH STREET

City: GREELEY State: COLORADO Zip Code: 80631

Is the land owned by the applicant? Yes _____ No 7

(If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: _____ cfs and/or 2 ac

4. SOURCE: NORTH WASH * DRAINAGE: COLORADO RIVER

4. SOURCE: NORTH WASH * DRAINAGE: COLORADO RIVER

which is tributary to _____

which is tributary to _____

POINT(S) OF DIVERSION: _____ COUNTY: GARFIELD

1) S 1300 Ft. & E 1900 Ft. from the NW Cor. Sec. 10, 2) S 700 Ft. & E 2200 Ft. from the NW Cor. Sec. 15 both in T31S, R12E SLBM.

Description of Diverting Works: Small basins in North Wash

* COMMON DESCRIPTION: (22 miles South of Hayksville)

5. POINT(S) OF REDIVERSION

The water will be rediverted from _____ at a point:

(22 miles South of Hanksville)

Description of Rediverting Works: _____

6. POINT(S) OF RETURN

The amount of water consumed will be _____ cfs or _____ ac-ft

The amount of water returned will be _____ cfs or _____ ac-ft

The water will be returned to the natural stream/source at a point(s): _____

7. STORAGE

Reservoir Name: _____ Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres

Height of dam: _____ feet

Legal description of inundated area by 40 acre tract(s): _____

*** These items are to be completed by the Division of Water Rights**

Appropriate

8. List any other water rights which will supplement this application None

9. NATURE AND PERIOD OF USE

Irrigation:	From _____ to _____
Stockwatering:	From _____ to _____
Domestic:	From _____ to _____
Municipal:	From _____ to _____
Mining:	From _____ to _____
Power:	From _____ to _____
Other:	From <u>August 1, 1987</u> to <u>August 31, 1988</u> <u>July 31</u>

10. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
Stockwatering (number and kind): _____
Domestic: _____ Families and/or _____ Persons
Municipal (name): _____
Mining: _____ Mining District in the _____ Mine
Ores mined: _____
Power: Plant name: _____ Type: _____ Capacity: _____
Other (describe): WATER USED TO DRILL OIL WELLS

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s): 43-017-30134-Dr.
1. Lone Cedar Federal #42-15 Well: SE $\frac{1}{4}$ NE $\frac{1}{4}$ - Section 15- T31S, R12E
43-017-30133 Dr. 21-14
2. Any of: NE $\frac{1}{4}$ NW $\frac{1}{4}$ - Section 14- T31S, R12E Location will be chosen
43-017-30132 13-14 Dr. NW $\frac{1}{4}$ SW $\frac{1}{4}$ - Section 14- T31S, R12E based upon results of
43-017-30135 24-15 Dr. SE $\frac{1}{4}$ SW $\frac{1}{4}$ - Section 15- T31S, R12E #42-15 Well

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of same size if necessary):

THIS APPLICATION IS TEMPORARY. WATER WILL BE USED
FROM AUGUST 1, 1987 TO AUGUST 1, 1988 Water will be
used solely for oil well drilling operations.

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein at the time of filing, rests with the applicant(s).



Signature of Applicant(s)
David J. Calvin
President- Bataa Oil, Inc.

STATE ENGINEER'S ENDORSEMENT

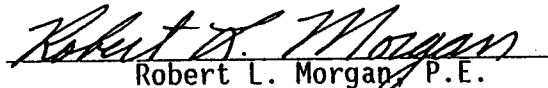
WATER RIGHT NUMBER: 95 - 4591

APPLICATION NO. T62715

1. July 27, 1987 Application received.
 2. August 3, 1987 Application designated for APPROVAL by MSA and SG.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated August 7, 1987, subject to prior rights and this application will expire on August 7, 1988.


Robert L. Morgan, P.E.
State Engineer

Bataaa Oil, Inc.

alg

October 6, 1987

101301

State of Utah
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Attn: Arlene Solis

Dear Ms. Solis:

Please find enclosed an original and two copies of the Sundry Notice of Abandonment for the Bataaa Oil, Inc. Lone Cedar Federal No. 42-15 well. Also enclosed are Monthly Reports of Operations for the two months the well was being drilled and copies of daily drilling logs. Please keep the enclosed logs and Geologists' Report confidential for six months.

If you should need any further information concerning this well please contact our office.

Sincerely,

Carl Friis

Carl Friis
Land Manager

CF:klh

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OCT 13 1987

OIL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP
(Other instruction
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Bataa Oil, Inc	8. FARM OR LEASE NAME Lone Cedar Federal
3. ADDRESS OF OPERATOR 5401 W. 10th Street, Greeley, CO 80634	9. WELL NO. 42-15
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Township 31 South, Range 12 East Section 15: 1960' FNL & 580' FEL	10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO. (state) 43-017-30134	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA T31S, R12E Section 15: SE ¹ NE ¹
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4977' GR 4991' KB	12. COUNTY OR PARISH Garfield
	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9/8/87: Received permission to plug well from BLM.

9/9/87: Circulated hole 2 hours then pumped 43 sacks Halliburton Lite Cement 4440-4240' at 12.7 lb/gal. Pulled up drillstring and pumped 54 sacks HLC from 2400-2200'. Pulled up drillstring and pumped 48 sacks with 3% CaCl of HLC 1800-1600' = 86' out and 114' in 8 5/8 intermediate string casing set at 1714'. Laid down pipe and striped cellar, remove BOP. Plugged top 125' of 8 5/8" casing with 25 sacks HLC. Pugged annulus between 8 5/8" and 13 3/8" casing with 20 sacks HLC to 90'. Cleaned up pumps. Called out welder and cut off 8 5/8" + 13 3/8" casing - cemented to top of hole. Released Aztec Well Servicing Rig No. 301 at 9:00p.m. - 9/9/87.

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DIVISION
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Carl Friis TITLE Land Manager DATE 10/6/87

(This space for Federal or State office use)

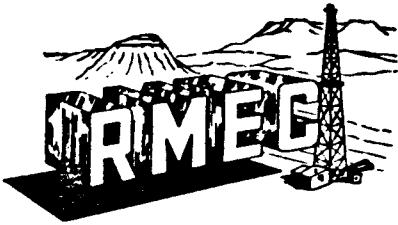
APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

*See Instructions on Reverse Side

DATE: 10-13-87
BY: R. D. Bays



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL SITE GEOLOGY — MUD LOGGING

2450 INDUSTRIAL BLVD.

PHONE 243-3044

GRAND JUNCTION, COLORADO 81505

September 10, 1987

Mr. Carl Friis
Bataa Oil, Inc.
5401 West 10th Street
Greeley, Colorado 80634

Dear Carl,

Enclosed is the final log on your well "Lone Cedar Federal #42-15 located in SE/NE Section 15, T31S, R12E of Garfield County, Utah.

We appreciated the opportunity to serve you. If we can be of any further assistance in the final evaluation of zones encountered please feel free to call on us.

We are looking forward to working with you again in the near future.

Sincerely,

Andy Kelley
President

AK/sm

Encls. (4) Final Logs
XXC: (2) Final Logs Amoco Production Co., Denver, CO
(2) Final Logs Louisiana Land & Exploration Co., Denver, CO

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DIVISION OF OIL

DEVIATION SURVEY

COMPANY NAME: Bataa Oil Inc. COUNTY: Garfield
WELL NAME: Lone Cedar Fed 42-15 STATE: Utah

DEPTH	DEV.		DEPTH	DEV.	DATE	DEPTH	DEV.	
325	3/4				8/14/87	215		
667	3/4				8/15	941	726	
970	0				8/16	1630	689	
1250	3/4				8/17	1714	84	
1809	1/2				8/18	2255	541	
2333	3/4				8/19	2750	311	
3187	2				8/20	3102	184	
3400	1 3/4				8/21	3322	352	
3646	3 1/2				8/22	3643	220	
3739	1 1/2				8/23	3840	321	
3900	4				8/24	3848	197	
4089	2 3/4				8/25	3848	8	
4275	3 1/2				8/26	3848	0	
4525	1 1/2				8/27	3848	0	
4800	1				8/28	3848	57	
5100	1/2				8/29	3905	310	
					8/30	4215	140	
					8/31	4355	128	
					9/1	4483	94	
					9/2	4577	193	
					9/3	4770	171	
					9/4	4941	159	
					9/5	5100	144	
					9/6	5244	6	
					T.D.	5250		

OCT 13 1987

BIT RECORD

WELL NAME: LONE CEDAR FED 42-15 ELEVATION: 4977 GL 4991 KB
CO. NAME: Bataa Oil Inc. SECTION: SE/NE Sec. 15 T31S R12E
CONTRACTOR: Aztec RIG# 181 CO. & STATE: Garfield County, Utah
SPUD DATE: 8-13-87 T.D. DATE: 9-6-87

[illegible]

DAILY WELL CALL REPORT

Well Name/Operator Baton O.I. Inc. Lone Cedar Fed 42-15 Location SENE-15-T315-R12F

KB: 4991' Spud date: 8/11/87 Rig Phone: None

Today's Date: 9/10/87 Recorded by: Karl Farris (Borden Eng)

Current Operations: Strip More off location

Present TD 5250' Wellsite Geologist/Mudlogger Rocky Morrison 600-409939

Feet/24 hrs. - 0 - Trips 2

Tops —

Lithology Description Hours: Strip Celler - 2 1/4, Wait on
Kalder + cut off 8 5/8" x 13 3/8" - 2 1/2, Circulate
+ Wait on Halliburton - 2, Lay down drill pipe + plug - 5 1/2
Clear bits, pumps + rig down - 3 hrs

Gas: Background - units Breakdown:
 Connection - units Breakdown:
 Trip - units Breakdown:

Drilling Rate	Bit No./Type	Mud. Wt.	WL
W. O. B.	R. P. M.	Vis.	pH
Flowline Temp.	Flow Rate	Filtercake	Cl
Pump Press./SPM		Nitrates	H ₂ S
Deviation Surveys	° @ <u> </u> ft.	Ca	Sand/Solids
	° @ <u> </u> ft.	MBT	KCl
	° @ <u> </u> ft.		

Drilling Breaks and/or Shows: Formation Lithology and Sample Show:
 Interval:

Por	Fluor	Color	Stn	Cut
	Before	During	After	Before
Drill Rate:	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Mud Weight:	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Cuttings Gas:	<u> </u>	<u> </u>	<u> </u>	<u> </u>
			Total Gas:	
			Chromatograph:	
			C ₁	
			C ₂	
			C ₃	
			C ₄	
			C ₅ +	

(Use another page(s) for additional show(s).)

DST # Interval, Formation, Times
 Wtr. Cush. Blow

Recovery

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
FP	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
SIP	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
BHT	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Cost to date:

Remarks Plug to cut off casing - See Sunday Notice
at Abbeysburg - Leaded dryers, two cone bits
fishing tools + cone barrel to Vernal - Wellhead with
Asphalt Drilling to their yard -

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DIVISION OF
 OIL, GAS & MINING

DAILY WELL CALL REPORT

Well Name/Operator Bataa Oil Lone Cedar Federal 42-15 Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ 15-T31S-R12E

KB: 4991 Spud date: 8/11/87 Rig Phone: _____

Today's Date: September 9, 1987 Recorded by: I.R. Morse (from Kenny Hayes)

Current Operations: Wait on orders

Present TD 5250

Wellsite Geologist/Mudlogger _____

Feet/24 hrs. 0

Trips 0

Tops _____

Lithology Description _____

Gas: Background - _____ units
Connection - _____ units
Trip - _____ units

Breakdown: _____

Breakdown: _____

Breakdown: _____

Drilling Rate _____

Bit No./Type _____

Mud. Wt. _____

WL _____

W. O. B. _____

R. P. M. _____

Vis. _____

pH _____

Flowline Temp. _____

Flow Rate _____

Filtercake _____

Cl _____

Pump Press./SPM _____

Nitrates _____

H₂S _____

Deviation Surveys _____

° @ _____

ft. _____

Ca _____

Sand/Solids _____

° @ _____

ft. _____

MBT _____

KCl _____

° @ _____

ft. _____

Drilling Breaks and/or Shows: Formation _____

Interval: _____

Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
	Before	During	After	Before
Drill Rate:	_____	_____	_____	_____
Mud Weight:	_____	_____	_____	_____
Cuttings Gas:	_____	_____	_____	_____
Total Gas:	_____	_____	_____	_____
Chromatograph:	_____	_____	_____	_____
C ₁	_____	_____	_____	_____
C ₂	_____	_____	_____	_____
C ₃	_____	_____	_____	_____
C ₄	_____	_____	_____	_____
C ₅ +	_____	_____	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____

Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Wait on orders. Trip in hole with Drill Collars. Lay down drill collars. Trip in hole with drill pipe to 4609'. Bread circulation every 25 stands. On bottom at 5:00 AM. Circulate Hole.

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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OCT 13 1987

DIVISION OF
OIL, GAS & MINING

DAILY WELL CALL REPORT

Baker Oil

Well Name/Operator Lone Cedar Federal 42-15 Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ 15-T31S-R12E

KB: 4991 Spud date: 8/11/87 Rig Phone: _____

Today's Date: September 8, 1987 Recorded by: I.R. Morse (from Kenny Hayes)

Current Operations: Wait on orders

Present TD 5250 Wellsite Geologist/Mudlogger Tom Dill

Feet/24 hrs. 0 Trips 1

Tops _____

Lithology Description _____

Gas: Background - _____	units	Breakdown: _____
Connection - _____	units	Breakdown: _____
Trip - _____	units	Breakdown: _____

Drilling Rate _____	Bit No./Type _____	Mud. Wt. <u>8.8</u>	WL <u>7.2</u>
W. O. B. _____	R. P. M. _____	Vis. <u>63</u>	pH <u>11.0</u>
Flowline Temp. _____	Flow Rate _____	Filtercake <u>2/32</u>	Cl <u>600</u>
Pump Press./SPM _____		Nitrates _____	H ₂ S _____
Deviation Surveys _____	° @ _____ ft.	Ca <u>100</u>	Sand/Solids <u>1/5</u>
	° @ _____ ft.	MBT _____	KCl _____
	° @ _____ ft.		

Drilling Breaks and/or Shows: Formation _____

Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut	
Before	During	After	Before	During	After
Drill Rate: _____	_____	_____	Total Gas: _____	_____	_____
Mud Weight: _____	_____	_____	Chromatograph: _____	_____	_____
Cuttings Gas: _____	_____	_____	C ₁ _____	_____	_____
			C ₂ _____	_____	_____
			C ₃ _____	_____	_____
			C ₄ _____	_____	_____
			C ₅ ⁺ _____	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____

Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Running log #2. Wouldn't go past 1935'. Trip in hole with bit.

Wash 3' to bottom. Circulate and condition mud and hole. Pull out of hole

with bit. Rig up and run log #2. (CNL Density) and log #3. (Compensated

Sonic). Rig down loggers wait on orders.

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DIVISION OF
OIL, GAS & MINING

DAILY WELL CALL REPORT

Well Name/Operator Lone Cedar Federal 42-15 Location SE&NE& 15-T31S-R12E
Bataa OilKB: 4991 Spud date: 8/11/87 Rig Phone: _____Today's Date: September 7, 1987 Recorded by: I.R. Morse (from Kenny Hayes)Current Operations: LoggingPresent TD 5250 Wellsite Geologist/Mudlogger Steve SmithFeet/24 hrs. 0 Trips 2

Tops _____

Lithology Description _____

Gas: Background -	_____	units	Breakdown: _____
Connection -	_____	units	Breakdown: _____
Trip -	_____	units	Breakdown: _____

Drilling Rate	Bit No./Type	Mud. Wt. 8.8	WL 7.6
W. O. B.	R. P. M.	Vis. 52	pH 11.0
Flowline Temp.	Flow Rate	Filtercake 2/32	Cl 600
Pump Press./SPM		Nitrates	H ₂ S
Deviation Surveys	° @ _____ ft.	Ca 100	Sand/Solids 1/8-
	° @ _____ ft.	MBT	KCl
	° @ _____ ft.		

Drilling Breaks and/or Shows: Formation _____
Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut		
	Before	During	After	Before	During	After
Drill Rate:	_____	_____	_____	Total Gas:	_____	_____
Mud Weight:	_____	_____	_____	Chromatograph:	_____	_____
Cuttings Gas:	_____	_____	_____	C ₁	_____	_____
				C ₂	_____	_____
				C ₃	_____	_____
				C ₄	_____	_____
				C ₅₊	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st	Final	Initial	2nd	Final
		Bomb			Bomb	
HP	_____		_____	_____		_____
FP	_____		_____	_____		_____
SIP	_____		_____	_____		_____
BHT	_____		_____	_____		_____

Cost to date: _____

Remarks Circulate and condition mud. Wait on loggers. Pull out of hole.
Steel line measurement out. OK. Rig up and log well. Logging tool came
apart. TIH in hole with bit. Chase junk to bottom.? Circulate. Pull out
of hole. Rig up loggers. Finish log #1. (DLL and Micro log.) Running
Do remarks go on Amoco scout ticket? Yes No log #2.

Do remarks get called out to other companies? Yes No

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OCT 13 1987DIVISION OF
OIL, GAS & MINING

DAILY WELL CALL REPORT

Well Name/Operator Lone Cedar Federal 42-15/Bataa Oil Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ -15 T31SR12EKB: 4991 Spud date: 8/11/87 Rig Phone: _____Today's Date: September 6, 1987 Recorded by: I.R. Morse (from Kenny Hayes)Current Operations: CirculatingPresent TD 5250' Wellsite Geologist/Mudlogger Tom Dill/Steve SmithFeet/24 hrs. 146 Trips 0

Tops _____

Lithology Description 80% limestone, 10% anhydrite, 10% shale

Gas: Background - <u>1</u> units	Breakdown: _____
Connection - _____ units	Breakdown: _____
Trip - _____ units	Breakdown: _____

Drilling Rate <u>7 min/ft.</u>	Bit No./Type <u>7/V617C</u>	Mud. Wt. <u>8.8</u>	WL <u>8.0</u>
W. O. B. <u>40,000</u>	R. P. M. <u>60-65</u>	Vis. <u>51</u>	pH <u>10.5</u>
Flowline Temp. _____	Flow Rate <u>320. PM</u>	Filtercake <u>2/32</u>	Cl <u>600</u>
Pump Press./SPM <u>900/108</u>		Nitrates _____	H ₂ S _____
Deviation Surveys <u>° @ _____ ft.</u>		Ca <u>80</u>	Sand/Solids <u>1/5%</u>
<u>° @ _____ ft.</u>		MBT _____	KCl _____
<u>° @ _____ ft.</u>			

Drilling Breaks and/or Shows: Formation _____
Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
Before	During	After		Before During After
Drill Rate: _____	_____	_____	Total Gas: _____	_____
Mud Weight: _____	_____	_____	Chromatograph: _____	_____
Cuttings Gas: _____	_____	_____	C ₁ _____	_____
			C ₂ _____	_____
			C ₃ _____	_____
			C ₄ _____	_____
			C ₅ ⁺ _____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Drill to 5130'. Service rig. Drill to 5130'. Circulation of samples from 5165-73
(50% limestone, 30% chert, 20% dolomite). Drill to 5250'. Anhydrite (a bunch) Circulate.
Mix anhydrite treatment and condition hole for logs.

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DIVISION OF
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DAILY WELL CALL REPORT

Well Name/Operator Lone Cedar Federal 42-15/Bataa Oil Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ -15-T31S-R13EKB: 4991 Spud date: 8/11/87 Rig Phone: _____Today's Date: September 5, 1987 Recorded by: I.R. Morse (from Kenny Hayes)Current Operations: DrillingPresent TD 5104 Wellsite Geologist/Mudlogger Steve SmithFeet/24 hrs. 116 Trips 1

Tops _____

Lithology Description 100% limestone with 10-50% anhydriteGas: Background - 1 units
Connection - _____ units
Trip - _____ units

Breakdown: _____

Breakdown: _____

Breakdown: _____

Drilling Rate 9 min/ftBit No./Type 7/V617CMMud. Wt. 8.9WL 7.6W. O. B. 40,000R. P. M. 60-65Vis. 45pH 11.5

Flowline Temp. _____

Flow Rate 320 GPMFiltercake 2/32Cl 700Pump Press./SPM 900/108

Nitrates _____

H₂S _____Deviation Surveys 1/2° @ 5100 ft.Ca 60Sand/Solids 1-5%

° @ _____ ft.

MBT _____

KCl _____

° @ _____ ft.

Drilling Breaks and/or Shows: Formation _____

Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
	Before	During	After	Before
Drill Rate:	_____	_____	_____	_____
Mud Weight:	_____	_____	_____	_____
Cuttings Gas:	_____	_____	_____	_____
Total Gas:	_____	_____	_____	_____
Chromatograph:	_____	_____	_____	_____
C ₁	_____	_____	_____	_____
C ₂	_____	_____	_____	_____
C ₃	_____	_____	_____	_____
C ₄	_____	_____	_____	_____
C ₅ ⁺	_____	_____	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Drill to 4994'. Treat mud for anhydrite. Service rig. Drill to 5050'. Still
mixing mud for anhydrite. Service rig. Drill to 5100'. Drop survey. POOH. Service
rig. Work BOP's. ITH to 2800'. Broke circ. ITH to 5060'. Ream to bottom.
Drilling ahead with new bit at 5104'.

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Well Name/Operator Lone Cedar Federal 42-15/Bataa Oil Location SE1/4NE1/4-15-T31S-R13EKB: 4991 Spud date: 8/11/87 Rig Phone: _____Today's Date: September 4, 1987 Recorded by: I.R. Morse (from Kenny Hayes)Current Operations: DrillingPresent TD 4988 Wellsite Geologist/Mudlogger Steve SmithFeet/24 hrs. 174 Trips 0

Tops _____

Lithology Description 90% limestone 10% chert 10-20% anhydrite at times

Gas: Background -	<u>1</u>	units	Breakdown: _____
Connection -	_____	units	Breakdown: _____
Trip -	_____	units	Breakdown: _____

Drilling Rate	<u>9 min/ft</u>	Bit No./Type	<u>6/V547</u>	Mud. Wt.	<u>8.8</u>	WL	<u>8</u>
W. O. B.	<u>40,000</u>	R. P. M.	<u>60-65</u>	Vis.	<u>46</u>	pH	<u>10</u>
Flowline Temp.	_____	Flow Rate	<u>320 GPM</u>	Filtercake	<u>2/32</u>	Cl	<u>600</u>
Pump Press./SPM	<u>900/108</u>	Nitrates	_____			H ₂ S	_____
Deviation Surveys	<u>1</u>	° @	<u>4800</u>	ft.	<u>Ca 40</u>	Sand/Solids	<u>1/8-5</u>
		° @	_____	ft.	MBT	KCl	_____
		° @	_____	ft.			_____

Drilling Breaks and/or Shows: Formation _____
Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut		
	Before	During	After	Before	During	After
Drill Rate:	_____	_____	_____	Total Gas:	_____	_____
Mud Weight:	_____	_____	_____	Chromatograph:	_____	_____
Cuttings Gas:	_____	_____	_____	C ₁	_____	_____
				C ₂	_____	_____
				C ₃	_____	_____
				C ₄	_____	_____
				C ₅₊	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Drill to 4847'. Run survey. Drill to 4910'. Service rig. Drill to 4973'.
Service rig. Drilling ahead at 4988'. Still drilling a lot of anhydrite

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

42-15

Well Name/Operator Lone Cedar Federal/Bataa Oil Location SE 1/4-15-T31S-R13EKB: 4991 Spud date: 8/11/87 Rig Phone: _____Today's Date: September 3, 1987 Recorded by: I.R. Morse (from Kenny Hayes)Current Operations: DrillingPresent TD 4814 Wellsite Geologist/Mudlogger Steve SmithFeet/24 hrs. 189 Trips 0

Tops _____

Lithology Description 90% Limestone 5% Anhydrite 5% Chert

Gas: Background -	<u>1</u>	units	Breakdown: _____
Connection -	_____	units	Breakdown: _____
Trip -	_____	units	Breakdown: _____

Drilling Rate	<u>8-9 min/ft</u>	Bit No./Type	<u>6/V547</u>	Mud. Wt.	<u>8.8</u>	WL	<u>7.6</u>
W. O. B.	<u>40,000</u>	R. P. M.	<u>60-65</u>	Vis.	<u>45</u>	pH	<u>10.5</u>
Flowline Temp.	_____	Flow Rate	<u>320 GPM</u>	Filtercake	<u>2/32</u>	Cl	<u>700</u>
Pump Press./SPM	<u>900/108</u>	Nitrates	_____		_____	H ₂ S	_____
Deviation Surveys	<u>° @ _____ ft.</u>	Ca	<u>60</u>		_____	Sand/Solids	<u>1/8-5</u>
	<u>° @ _____ ft.</u>	MBT	_____		_____	KCl	_____
	<u>° @ _____ ft.</u>		_____		_____		_____

Drilling Breaks and/or Shows: Formation _____

Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut		
	Before	During	After	Before	During	After
Drill Rate:	_____	_____	_____	Total Gas:	_____	_____
Mud Weight:	_____	_____	_____	Chromatograph:	_____	_____
Cuttings Gas:	_____	_____	_____	C ₁	_____	_____
				C ₂	_____	_____
				C ₃	_____	_____
				C ₄	_____	_____
				C ₅ ⁺	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st	Final	Initial	2nd	Final
		Bomb			Bomb	
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Drilling to 4660'. Service rig. Drilling ahead at 4814' with 40,000# on bit.
Drilling a lot of anhydrite.

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Well Name/Operator Lone Cedar Federal/Bataa Oil Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ -15-T31S-R12EKB: 4991 Spud date: 8/11/87 Rig Phone: _____Today's Date: September 2, 1987 Recorded by: I.R.Morse (from Kenny Hayes)Current Operations: DrillingPresent TD 4625 Wellsite Geologist/Mudlogger Steve SmithFeet/24 hrs. 142 Trips 0

Tops _____

Lithology Description 100% Limestone Trace chert

Gas: Background - <u>1</u> units	Breakdown: _____
Connection - _____ units	Breakdown: _____
Trip - _____ units	Breakdown: _____

Drilling Rate <u>6 min/ft</u>	Bit No./Type <u>6/V547</u>	Mud. Wt. <u>8.8</u>	WL <u>8.0</u>
W. O. B. <u>40,000</u>	R. P. M. <u>60-65</u>	Vis. <u>46</u>	pH <u>11.0</u>
Flowline Temp. _____	Flow Rate <u>302</u>	Filtercake <u>2/32</u>	Cl <u>700</u>
Pump Press./SPM <u>900/108</u>		Nitrates _____	H ₂ S _____
Deviation Surveys <u>1$\frac{1}{2}$</u> ° @ <u>4525</u> ft.		Ca <u>120</u>	Sand/Solids <u>1$\frac{1}{2}$/6</u>
		MBT _____	KCl _____

Drilling Breaks and/or Shows: Formation _____
Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
	Before	During	After	Before
Drill Rate:	_____	_____	_____	_____
Mud Weight:	_____	_____	_____	_____
Cuttings Gas:	_____	_____	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Finish reaming to bottom. Drill to 4503'. Service rig. Drill to 4534'. Run
Survey. (No good). Drill to 4565'. Run survey. at 4525'. Drilling ahead at 4625'
with 40,000# on bit.

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Well Name/Operator Lone Cedar Federal/Bataa Oil Location SE1/4-15-T31S-R12EKB: 4991 Spud date: 8/11/87 Rig Phone: _____Today's Date: September 1, 1987 Recorded by: I.R. Morse (from Kenny Hayes)Current Operations: Wash and ReamPresent TD 4483'Wellsite Geologist/Mudlogger Steve SmithFeet/24 hrs. 100Trips 1

Tops _____

Lithology Description 4400-4440 20% sandstone 80% limestone Trace chert4440-4480 10% limestone 90% dolomite Trace anhydriteGas: Background - 1 units
Connection - _____ units
Trip - _____ units

Breakdown: _____

Breakdown: _____

Breakdown: _____

Drilling Rate 8 1/2 min/ftBit No./Type 6/547Mud. Wt. 8.8WL 9.0W. O. B. 35,000R. P. M. 65-70Vis. 46pH 10.5

Flowline Temp. _____

Flow Rate 320/GPMFiltercake 2/32Cl 700Pump Press./SPM 900/108

Nitrates _____

H₂S _____Deviation Surveys 1 1/2° @ 4409 ft.
° @ _____ ft.
° @ _____ ft.Ca 100

MBT _____

Sand/Solids 1 1/2%/5%
KCl _____

Drilling Breaks and/or Shows: Formation _____

Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut			
	Before	During	After	Before	During	After	
Drill Rate:	_____	_____	_____	Total Gas:	_____	_____	_____
Mud Weight:	_____	_____	_____	Chromatograph:	_____	_____	_____
Cuttings Gas:	_____	_____	_____	C ₁	_____	_____	_____
				C ₂	_____	_____	_____
				C ₃	_____	_____	_____
				C ₄	_____	_____	_____
				C ₅ +	_____	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____

Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Drill to 4409'. Run survey and service rig. Drill to 4441'. Service rig. Drill to 4483'. Drop survey. Pull out of hole. Service rig. Dress bit. Work BOP's. Retrieve dope brush and survey bbl. from bottom drill collar. Trip in hole. Broke circulation at 3200'. Trip in hole. Out of gauge at 4380'. Wash and ream to bottom
Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Well Name/Operator Lone Cedar Federal/Bataa Oil Location SE1/4NE1/4-15-T31S-R12EKB: 4991 Spud date: 8/11/87 Rig Phone: _____Today's Date: August 31, 1987 Recorded by: I.R. Morse (from Kenny Hayes)Current Operations: DrillingPresent TD 4383 Wellsite Geologist/Mudlogger Steve SmithFeet/24 hrs. 143 Trips 0

Tops _____

Lithology Description 90% Limestone-10% Chert

Gas: Background - _____	units	Breakdown: _____
Connection - _____	units	Breakdown: _____
Trip - _____	units	Breakdown: _____

Drilling Rate 15 Min/ft	Bit No./Type <u>5/F-3</u>	Mud. Wt. <u>8.8</u>	WL <u>8.0</u>
W. O. B. <u>24-26,000</u>	R. P. M. <u>65-70</u>	Vis. <u>45</u>	pH <u>11.5</u>
Flowline Temp.	Flow Rate <u>320</u>	Filtercake <u>2/32</u>	Cl <u>600</u>
Pump Press./SPM <u>900/108</u>		Nitrates	H ₂ S
Deviation Surveys <u>3 1/2</u>	° @ <u>4275</u>	Ca <u>100</u>	Sand/Solids <u>1/5%</u>
	° @ _____	MBT	KCl
	° @ _____		

Drilling Breaks and/or Shows: Formation _____
Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
Before	During	After		Before
Drill Rate: _____	_____	_____	Total Gas: _____	_____
Mud Weight: _____	_____	_____	Chromatograph: _____	_____
Cuttings Gas: _____	_____	_____	C ₁ _____	_____
			C ₂ _____	_____
			C ₃ _____	_____
			C ₄ _____	_____
			C ₅ ⁺ _____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Drill to 4243'. Service Rig. Drill to 4315'. Survey at 4275'. Drill to 4346'.
Service rig. Work BOP's. Drill to 4378'. Service rig. Work BOP's. Drilling ahead
with 25,000# on bit at 4383'.

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Well Name/Operator Bataa Oil-Lone Cedar Federal 42-15 Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ -15-T31S-R12EKB: 4991 Spud date: 8/11/87 Rig Phone: _____Today's Date: August 30, 1987 Recorded by: I.R. Morse (from Kenny Hayes)Current Operations: Drilling aheadPresent TD 4240 Wellsite Geologist/Mudlogger Steve SmithFeet/24 hrs. 280 Trips 0

Tops _____

Lithology Description 75% sandstone-25% limestone

Gas: Background -	<u>1-2</u>	units	Breakdown: _____
Connection -	_____	units	Breakdown: _____
Trip -	_____	units	Breakdown: _____

Drilling Rate	<u>13 min/ft.</u>	Bit No./Type	<u>5-button</u>	Mud. Wt.	<u>8.7</u>	WL	<u>8.0</u>
W. O. B.	<u>27,000</u>	R. P. M.	<u>65</u>	Vis.	<u>54</u>	pH	<u>10.0</u>
Flowline Temp.	_____	Flow Rate	<u>320-GPM</u>	Filtercake	<u>2/32</u>	Cl	<u>700</u>
Pump Press./SPM	<u>900/108</u>	Nitrates	_____	Ca	<u>100</u>	H ₂ S	_____
Deviation Surveys	<u>2-3/4° @ 4089</u>	ft.	_____	MBT	_____	Sand/Solids	<u>1/5%</u>
	<u>° @</u>	ft.	_____			KCl	_____
	<u>° @</u>	ft.	_____				_____

Drilling Breaks and/or Shows: Formation	_____	Lithology and Sample Show:	_____
Interval:	_____		_____

Por	Fluor	Color	Stn	Cut	
Before	During	After	Before	During	After
Drill Rate:	_____	_____	_____	_____	_____
Mud Weight:	_____	_____	_____	_____	_____
Cuttings Gas:	_____	_____	_____	_____	_____
			Total Gas:		
			Chromatograph:		
			C ₁	_____	_____
			C ₂	_____	_____
			C ₃	_____	_____
			C ₄	_____	_____
			C ₅₊	_____	_____

(Use another page(s) for additional show(s).)

DST #	_____	Interval, Formation, Times	_____
Wtr. Cush.	_____	Blow	_____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Drilling to 4035'. Service rig. Drilling to 4129'. Circulate for survey.
Survey at 4089'. Drilling to 4190'. Change out stripper rubber. on rotating head.
Drilling ahead to 4240. with 27000# on bit. Drilling a lot of anhydrite.

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Well Name/Operator Bataa Oil Lone Cedar Federal Location 42-15KB: 4991 Spud date: 8/11/87 Rig Phone: _____Today's Date: August 29, 1987 Recorded by: I.R. Morse (form Kenny Hayes)Current Operations: DrillingPresent TD 3960 Wellsite Geologist/Mudlogger STEVE SMITHFeet/24 hrs. 114 Trips 1Tops see mud loggers reportLithology Description 50% sandstone, 25% limestone, 25% dolomite

Gas: Background - <u>2</u> units	Breakdown: _____
Connection - _____ units	Breakdown: _____
Trip - _____ units	Breakdown: _____

Drilling Rate <u>8.4/hr</u>	Bit No./Type <u>KC 5035</u>	Mud. Wt. <u>8.7+</u>	WL <u>8.6</u>
W. O. B. <u>15-22000#</u>	R. P. M. <u>65</u>	Vis. <u>45</u>	pH <u>10</u>
Flowline Temp. _____	Flow Rate <u>320GPM</u>	Filtercake <u>2/32</u>	Cl <u>750</u>
Pump Press./SPM <u>900/108</u>		Nitrates _____	H ₂ S <u>0</u>
Deviation Surveys <u>3-1/4° @ 3900</u> ft.		Ca <u>120</u>	Sand/Solids <u>1/2%</u>
<u>° @</u> ft.		MBT _____	KCl _____
<u>° @</u> ft.			

Drilling Breaks and/or Shows: Formation Elephant Canyon
Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
Before	During	After		Before During After
Drill Rate: _____	_____	_____	Total Gas: _____	_____
Mud Weight: _____	_____	_____	Chromatograph: _____	_____
Cuttings Gas: _____	_____	_____	C ₁ _____	_____
			C ₂ _____	_____
			C ₃ _____	_____
			C ₄ _____	_____
			C ₅ ⁺ _____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Wait on orders. Remove tools off floor. Laid down shot drill collar. Repack swivel. Trip in hole. Wash 150 ft. to bottom. Drilling at 3846'- 3940' with 15000# on bit. Survey at 3900'. Drilling ahead at 3960' with 22,000# on bit.

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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Well Name/Operator Bataa Oil Lone Cedar Federal Location 42-15

Today's Date: August 28, 1987 Recorded by: I.R. Morse (from Kenny Hayes)

Present TD 3846 Wellsite Geologist/Mudlogger Bill Nagel

Feet/24 hrs. 0 Trips 2

Tops

Lithology Description

Gas: Background - _____ units Breakdown: _____
 Connection - _____ units Breakdown: _____
 Trip - _____ units Breakdown: _____

Drilling Rate	Bit No./Type	Mud. Wt.	WL
W. O. B.	R. P. M.	Vis.	pH
Flowline Temp.	Flow Rate	Filtercake	Cl
Pump Press./SPM		Nitrates	H ₂ S
Deviation Surveys	° @ ft.	Ca	Sand/Solids
	° @ ft.	MBT	KCl
	° @ ft.		

Drilling Breaks and/or Shows: Formation Interval:	Lithology and Sample Show:
---	----------------------------

Por	Fluor		Color	Stn	Cut		
	Before	During	After		Before	During	After
Drill Rate:	_____	_____	_____	Total Gas:	_____	_____	_____
Mud Weight:	_____	_____	_____	Chromatograph:			
Cuttings Gas:	_____	_____	_____	C ₁	_____	_____	_____
				C ₂	_____	_____	_____
				C ₃	_____	_____	_____
				C ₄	_____	_____	_____
				C ₅ +	_____	_____	_____

(Use another page(s) for additional show(s).)

DST # _____	Interval, Formation, Times _____
Wtr. Cush. _____	Blow _____

Recovery

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____		_____	_____		_____
FP	_____		_____	_____		_____
SIP	_____		_____	_____		_____
BHT	_____		_____	_____		_____

Cost to date: _____

Remarks Wash and ream. Circulate and lost circulation. (150 bbls) at 2880'. Work pipe.
Lay down three joints and got returns. Mix mud. Wash to 2906'. Top of fish. Circulate
hole. Pull out of hole. Hole tight on trip out. Pick up fishing assembly. Trip in hole.
Circulate and wash out box on fish. Screw on and work fish. Broke circulation. (over)
 Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DIVISION OF OIL, GAS & MINING

DAILY WELL CALL REPORT

Well Name/Operator Bataa Oil Lone Cedar Federal Location 42-15KB: 4991 Spud date: 8/11/87 Rig Phone: _____Today's Date: August 27, 1987 Recorded by: I.R. Morse (from Kenny Hayes)Current Operations: Mixing Loss Circulation MaterialPresent TD 3846 Wellsite Geologist/Mudlogger Bill NagelFeet/24 hrs. 0 Trips 1

Tops _____

Lithology Description _____

Gas: Background - _____	units	Breakdown: _____
Connection - _____	units	Breakdown: _____
Trip - _____	units	Breakdown: _____

Drilling Rate _____	Bit No./Type _____	Mud. Wt. _____	WL _____
W. O. B. _____	R. P. M. _____	Vis. _____	pH _____
Flowline Temp. _____	Flow Rate _____	Filtercake _____	Cl _____
Pump Press./SPM _____		Nitrates _____	H ₂ S _____
Deviation Surveys _____	° @ _____ ft.	Ca _____	Sand/Solids _____
	° @ _____ ft.	MBT _____	KCl _____
	° @ _____ ft.		

Drilling Breaks and/or Shows: Formation _____
Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut	
Before	During	After	Before	During	After
Drill Rate: _____	_____	_____	Total Gas: _____	_____	_____
Mud Weight: _____	_____	_____	Chromatograph: _____	_____	_____
Cuttings Gas: _____	_____	_____	C ₁ _____	_____	_____
			C ₂ _____	_____	_____
			C ₃ _____	_____	_____
			C ₄ _____	_____	_____
			C ₅ ⁺ _____	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Trip in hole three stands. Wash and ream. Quit circulating. Pull out of hole.
Lay down fishing assembly. Service rig. Work on BOP's. Trip in hole. Pick jars and
bumper sub. and bit. Break circulation at bottom of 8-5/8. Trip in hole. Wash and ream.
Lost circulation (200 bbls) at 2600'. Pull out of hole to 8-5/8. Mix mud and LCM. Trip in
 Do remarks go on Amoco scout ticket? Yes No (over)

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Well Name/Operator Bataa Oil Location Lone Cedar Federal 42-15

KB: 4991 Spud date: 8/11/87 Rig Phone: _____

Today's Date: August 26, 1987 Recorded by: I.R. Morse (from Kennv Hayes)

Current Operations: Tripping in hole

Present TD 3846 Wellsite Geologist/Mudlogger Bill Nagel

Feet/24 hrs. 0 Trips 1

Tops _____

Lithology Description _____

Gas: Background - _____	units	Breakdown: _____
Connection - _____	units	Breakdown: _____
Trip - _____	units	Breakdown: _____

Drilling Rate _____	Bit No./Type _____	Mud. Wt. _____	WL _____
W. O. B. _____	R. P. M. _____	Vis. _____	pH _____
Flowline Temp. _____	Flow Rate _____	Filtercake _____	Cl _____
Pump Press./SPM _____		Nitrates _____	H ₂ S _____
Deviation Surveys _____	° @ _____ ft.	Ca _____	Sand/Solids _____
	° @ _____ ft.	MBT _____	KCl _____
	° @ _____ ft.		

Drilling Breaks and/or Shows: Formation _____

Interval: _____ Lithology and Sample Show: _____

Por _____	Fluor _____	Color _____	Stn _____	Cut _____	
Before	During	After	Before	During	After
Drill Rate: _____	_____	_____	Total Gas: _____	_____	_____
Mud Weight: _____	_____	_____	Chromatograph: _____	_____	_____
Cuttings Gas: _____	_____	_____	C ₁ _____	_____	_____
			C ₂ _____	_____	_____
			C ₃ _____	_____	_____
			C ₄ _____	_____	_____
			C ₅ ⁺ _____	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____

Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Work stuck pipe. Rig up and run free point to top of Drill Collars. Stuck at top of drill collars. Work stuck pipe. Wait on air hands. Rig up air tools. Aireate mud. Work pipe. Blow hole hole and unload hole. Re run free point. 17 drill collars free. Stuck at stabilizer. Back off at 2906'. Fill hole. Left one drill collar on top of (over)

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Well Name/Operator Bataaaa Oil Location Lone Cedar Federal 42-15

KB: 4991 Spud date: 8/11/87 Rig Phone: _____

Today's Date: August 25, 1987 Recorded by: I.R. Morse (from Kenny Hayes)

Current Operations: Working Stuck Pipe

Present TD 3846 Wellsite Geologist/Mudlogger Bill Nagel

Feet/24 hrs. 0 Trips 1

Tops _____

Lithology Description _____

Gas: Background - _____	units	Breakdown: _____
Connection - _____	units	Breakdown: _____
Trip - _____	units	Breakdown: _____

Drilling Rate	Bit No./Type	Mud. Wt.	WL
W. O. B.	R. P. M.	Vis.	pH
Flowline Temp.	Flow Rate	Filtercake	Cl
Pump Press./SPM		Nitrates	H ₂ S
Deviation Surveys	° @ _____ ft.	Ca	Sand/Solids
	° @ _____ ft.	MBT	KCl
	° @ _____ ft.		

Drilling Breaks and/or Shows: Formation _____
Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
	Before	During	After	Before
Drill Rate:	_____	_____	_____	_____
Mud Weight:	_____	_____	_____	_____
Cuttings Gas:	_____	_____	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Trip in hole. Bridge at 2650'. Service Rig. Wash and ream to 3085'. While running stand of pipe in hole, hit tight spot. Would not pull out. Working stuck pipe. Fishing tool on loc. at 4:00AM. 8-25-87. Back off truck on loc. at 5:15 AM 8-25-87

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Well Name/Operator Botan Oil Inc. Love Cedar Federal 42-15 Location SE 15-T315-R12E

KB: 4991' Spud date: 8/11/87 Rig Phone: N-12

Today's Date: 8/24/87 Recorded by: C. Friis (from Hayes)

Current Operations: Trip in Hole

Present TD 3846' Wellsite Geologist/Mudlogger Bill Nagel

Feet/24 hrs. 141 Trips 1

Tops Elephant Canyon 3846

Lithology Description 100% White Limestone - Note: Green Bentonite Shale at 3797-3810' in the Cedar Mesa

Gas: Background - 1 units Breakdown: _____
 Connection - 1 units Breakdown: _____
 Trip - 1 units Breakdown: _____

Drilling Rate _____ Bit No./Type 5-7/8" F3 Mud. Wt. 8.9 WL 12
 W. O. B. 15,000 R. P. M. 80-85 Vis. 43 pH 11
 Flowline Temp. _____ Flow Rate _____ Filtercake 2/32 Cl 900
 Pump Press./SPM _____ Nitrates _____ H₂S _____
 Deviation Surveys 4° @ 3739 ft. Ca 140 Sand/Solids 5%
4+° @ 3841 ft. MBT _____ KCl _____
° @ ft.

Drilling Breaks and/or Shows: Formation ~~42-15~~ Cedar Mesa
 Interval: 3795' Lithology and Sample Show: Trace
black line pit in sandstone, No fluorescence, fast
flush cut

Por	Fluor		Color	Stn	Total Gas:	Cut	
	Before	During				Before	During
Drill Rate:							
Mud Weight:							
Cuttings Gas:							
						C ₁	
						C ₂	
						C ₃	
						C ₄	
						C ₅ +	

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
 Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP						
FP						
SIP						
BHT						

Cost to date: _____

Remarks Drill to 3716 - Sec. Rig - Drill to 3747 - Sec. Rig - Drill to 3779 - Survey Misco - 5.14 3779' - 4° good - Drill to 3846 - w/ 15000 WT on bit, 80-85 RPM - Drop Survey
P.O.H. 5.4M at 5.4M O.K. Caliper PC cut at Hole - Sec.
 Do remarks go on Amoco scout ticket? Yes No Rig - P/V B.H.A. - T. I. H.

Do remarks get called out to other companies? Yes No Bit #4 - B-1 T-2 6 3/8 P.O.

Hours: Drill 17 3/4 - Survey 1 1/4, Trip - 3 1/2, Rig Service - 2
P/O B.H.A. - I

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DAILY WELL CALL REPORT

Well Name/Operator Bataa Oil, Inc. Lone Cedar Federal #42-15 Location SE1NE1-15- T31S, R12E
 KB: 4991' Spud date: 8/11/87 Rig Phone: None
 Today's Date: 8/23/87 Recorded by: Carl Friis (from Kenny Hayes)
 Current Operations: Drilling
 Present TD 3705' Wellsite Geologist/Mudlogger Bill Nagel-Rocky Mtn Geo-Logging
 Feet/24 hrs. 305' Trips 0

Tops (Drilling in Cedar Mesa)

Lithology Description 100% Sandstone with occasional anhydrite stringers.

Gas: Background - 1 units Breakdown: _____
 Connection - - units Breakdown: _____
 Trip - 3 units Breakdown: _____

Drilling Rate	Bit No./Type <u>4-7 7/8 V537</u>	Mud. Wt. <u>8.9</u>	WL <u>10</u>
W. O. B. <u>30,000; 20,000</u>	R. P. M. <u>75</u>	Vis. <u>43</u>	pH <u>10</u>
Flowline Temp.	Flow Rate	Filtercake <u>2/32</u>	Cl <u>700</u>
Pump Press./SPM <u>800</u>		Nitrates	H ₂ S
Deviation Surveys <u>1 3/4 ° @ 3400? See note</u> ft.		Ca <u>80</u>	Sand/Solids
<u>3 1/2 ° @ 3646</u> ft.		MBT	KCl
<u>° @</u> ft.			

Drilling Breaks and/or Shows: Formation Cedar Mesa 3448-3452 - 6 unit gas increase over
 Interval: background; no floor or cut Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
	Before	During	After	Before
Drill Rate:				During
Mud Weight:				After
Cuttings Gas:				
			Total Gas:	
			Chromatograph:	
			C ₁	
			C ₂	
			C ₃	
			C ₄	
			C ₅ ⁺	

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
 Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP						
FP						
SIP						
BHT						

Cost to date: _____

Remarks Drill to 3421'. Service Rig. Drill to 3499'; Run Survey- broke wireline 50' off bottom.
Pull tool out of hole by hand- it took so long that pipe was tight. Work pipe free
Drilling Anhydrite stringers; Drill to 3686. Run survey with new wireline at 3646' - 31°
Reduce bit weight to 20,000- 75 RPM. Drilling 10-12' / hour. HOURS: Drill - 21; Survey - 1 1/2
 Do remarks go on Amoco scout ticket? Yes No Repair: 3/4; Rig Service: 1/2

Do remarks get called out to other companies? Yes No Hole tight 1/2; Downtime due to survey tool breaking 1 hour

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DAILY WELL CALL REPORT

Well Name/Operator Bataa Oil, Inc. Lone Cedar Federal #42-15 Location SE 1/4 NE 1/4 - 15 - T31S, R12E

KB: 4991' Spud date: 8/11/87 Rig Phone: None

Today's Date: 8/22/87 Recorded by: Carl Friis (from Kenny Hayes)

Current Operations: Drilling

Present TD 3400' Wellsite Geologist/Mudlogger Bill Nagel-Rocky Mtn Geo-Logging

Feet/24 hrs. 215 Trips 1

Tops _____

Lithology Description _____

Gas: Background - _____ units	Breakdown: _____
Connection - _____ units	Breakdown: _____
Trip - _____ units	Breakdown: _____

Drilling Rate _____	Bit No./Type <u>3-7 7/8 V537</u>	Mud. Wt. <u>9.0</u>	WL <u>9.0</u>
W. O. B. <u>30,000</u>	R. P. M. <u>70-80</u>	Vis. <u>43</u>	pH <u>9.5</u>
Flowline Temp. _____	Flow Rate _____	Filtercake <u>2/32</u>	Cl <u>700</u>
Pump Press./SPM <u>800</u>		Nitrates _____	H ₂ S _____
Deviation Surveys <u>2 ° @ 3187'</u> ft.		Ca _____	Sand/Solids _____
<u>° @ _____</u> ft.		MBT _____	KCl _____
<u>° @ _____</u> ft.			

Drilling Breaks and/or Shows: Formation _____

Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
	Before	During	After	Before
Drill Rate:	_____	_____	_____	_____
Mud Weight:	_____	_____	_____	_____
Cuttings Gas:	_____	_____	_____	_____

Total Gas:	_____	_____	_____
Chromatograph:	_____	_____	_____
C ₁	_____	_____	_____
C ₂	_____	_____	_____
C ₃	_____	_____	_____
C ₄	_____	_____	_____
C ₅ +	_____	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____

Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Circulate to trip out. Drop survey. POOH. No right places. Service rig. Trip in bit
3/8" out of gauge. Ream 70' to bottom. Drill to 3230'. Service rig. Drill ahead to
3400'. HOURS: Drill 16 3/4; Trip 4 3/4; Rig Service 1/2; Ream 70' 1 1/2; Circulate 1/2

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Bataa O', Inc.

Well Name/Operator Lone Cedar Federal #42-15 Location SE1NE1-15-T31S-R12EKB: 4991' Spud date: 8/11/87 Rig Phone: NoneToday's Date: 8/21/87 Recorded by: Carl FriisCurrent Operations: DrillingPresent TD 3185' Wellsite Geologist/Mudlogger Bill NagelFeet/24 hrs. 339 Trips 1Tops Cedar Mesa 2933, Lower Permian (projected) 3713

Lithology Description

Gas: Background -	<u>1</u>	units	Breakdown:	
Connection -	<u>-</u>	units	Breakdown:	
Trip -	<u>-</u>	units	Breakdown:	

Drilling Rate	<u>14.9</u>	Bit No./Type	<u>7-7/8 V537</u>	Mud. Wt.	<u>8.9</u>	WL	<u>10</u>
W. O. B.	<u>40,000</u>	R. P. M.	<u>65-70</u>	Vis.	<u>44</u>	pH	<u>10</u>
Flowline Temp.		Flow Rate		Filtercake	<u>2/32</u>	Cl	<u>700</u>
Pump Press./SPM	<u>500</u>			Nitrates		H ₂ S	
Deviation Surveys	<u>3/4</u>	<u>° @ 2837</u>	<u>ft.</u>	Ca	<u>80</u>	Sand/Solids	<u>1/8%</u>
		<u>° @</u>	<u>ft.</u>	MBT		KCl	
		<u>° @</u>	<u>ft.</u>				

Drilling Breaks and/or Shows: Formation

Interval: Lithology and Sample Show:

Por	Fluor	Color	Stn	Cut		
	Before	During	After	Before	During	After
Drill Rate:				Total Gas:		
Mud Weight:				Chromatograph:		
Cuttings Gas:				C ₁		
				C ₂		
				C ₃		
				C ₄		
				C ₅ ⁺		

(Use another page(s) for additional show(s).)

DST # Interval, Formation, Times

Wtr. Cush. Blow

Recovery

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP						
FP						
SIP						
BHT						

Cost to date:

Remarks Drill to 2877; ser rig+ work BOP; survey 2837; drill to 3002; ser rig;
drill to 3185' HOURS: drill 22 3/4; survey 1; ser rig & work BOP 1

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Bataa Oil Inc.

Well Name/Operator Lone Cedar Federal #42-15 Location SE1NE1-15- T31S-R12E

KB: 4991' Spud date: 8/11/87 Rig Phone: None

Today's Date: 8/20/87 Recorded by: Carl Friis

Current Operations: Drilling

Present TD 2846' Wellsite Geologist/Mudlogger Bill Nagel

Feet/24 hrs. 280 Trips -0-

Tops Organ Rock 2705 (Proj.) Cedar Mesa 2905

Lithology Description

Gas: Background -	_____	units	Breakdown: _____
Connection -	_____	units	Breakdown: _____
Trip -	_____	units	Breakdown: _____

Drilling Rate <u>19.5</u>	Bit No./Type <u>3/V-537</u>	Mud. Wt. <u>8.8</u>	WL <u>11.5</u>
W. O. B. <u>40,000 lbs</u>	R. P. M. <u>60</u>	Vis. <u>44</u>	pH <u>9.5</u>
Flowline Temp. _____	Flow Rate _____	Filtercake <u>2/32</u>	Cl <u>700</u>
Pump Press./SPM <u>500</u>		Nitrates _____	H ₂ S _____
Deviation Surveys <u>None</u>	° @ _____ ft.	Ca <u>80</u>	Sand/Solids ¹ <u>75%</u>
	° @ _____ ft.	MBT _____	KCl _____
	° @ _____ ft.		

Drilling Breaks and/or Shows: Formation _____
Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
Before	During	After		Before During After
Drill Rate: _____	_____	_____	Total Gas: _____	_____
Mud Weight: _____	_____	_____	Chromatograph: _____	_____
Cuttings Gas: _____	_____	_____	C ₁ _____	_____
			C ₂ _____	_____
			C ₃ _____	_____
			C ₄ _____	_____
			C ₅ ⁺ _____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Wash & Ream to bottom- 9 1/2 hrs; Drilling- 14 1/2 hrs. Started desander and desilter- 8 P.M. 8/19/87

Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Well Name/Operator Bataa O. Inc. Lone Cedar Federal #42-15 Location SE1/4NE1/4-15-T31S-R12E

KB: 4991' Spud date: 8/11/87 Rig Phone: None

Today's Date: 8/19/87 Recorded by: Carl Friis

Current Operations: Wash & Ream to bottom

Present TD 2566' Wellsite Geologist/Mudlogger Bill Nagel

Feet/24 hrs. 189 Trips 2

Tops White Rim 2305

Lithology Description

Gas: Background - _____ units Breakdown: _____
 Connection - _____ units Breakdown: _____
 Trip - _____ units Breakdown: _____

Drilling Rate <u>26.1</u>	Bit No./Type <u>3/V-537</u>	Mud. Wt. <u>8.9+</u>	WL
W. O. B. (Wash & Ream)	R. P. M. <u>60-70</u>	Vis. <u>80</u>	pH
Flowline Temp.	Flow Rate	Filtercake <u>N.C.</u>	Cl
Pump Press./SPM <u>500</u>		Nitrates	H ₂ S
Deviation Surveys <u>3/4</u>	° @ <u>2333</u> ft.	Ca	Sand/Solids
	° @ _____ ft.	MBT	KCl
	° @ _____ ft.		

Drilling Breaks and/or Shows: Formation

Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
	Before	During	After	Before
Drill Rate:	_____	_____	_____	_____
Mud Weight:	_____	_____	_____	_____
Cuttings Gas:	_____	_____	_____	_____
			Total Gas:	_____
			Chromatograph:	_____
			C ₁	_____
			C ₂	_____
			C ₃	_____
			C ₄	_____
			C ₅ +	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
 Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Survey 2333; Circ to bottom w/450 psi; drilling-lost returns; blow hole 600 psi; shut down & pull out of hole; fill hole with mud; trip in hole to 1950'-bridged off; pull up kelly; wash & ream; mix mud; wash & ream to 2285' HOURS: drill 7; surv 2; trips; rig serv 1; circ1; fillhole 1; mix mud
 Do remarks go on Amoco scout ticket? Yes No 4; wash & ream 10

Do remarks get called out to other companies? Yes No

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DAILY WELL CALL REPORT

Well Name/Operator Bataa O. Inc.
Lone Cedar Federal #42-15 Location SE1/4NE1/4-15-T31S-R12EKB: 4991' Spud date: 8/11/87 Rig Phone: NoneToday's Date: 8/18/87 Recorded by: Carl Friis (from Kenny Hayes)Current Operations: Circulate & SurveyPresent TD 2377' Wellsite Geologist/Mudlogger Bill NagelFeet/24 hrs. 652 Trips 2Tops 2233' Sinbad?Lithology Description 2233-2240' shows- see mudloggers reportGas: Background - 1-2 units
Connection - 2 units
Trip - unitsBreakdown: Breakdown: Breakdown: Drilling Rate 36.7Bit No./Type 3/V-537Mud. Wt. Air Mist WL W. O. B. 25,000R. P. M. 65Vis. pH Flowline Temp. Flow Rate Filtercake Cl Pump Press./SPM 450 (Air)Nitrates H₂S Deviation Surveys 1/2 ° @ 1809' ft.Ca Sand/Solids ° @ ft.MBT KCl ° @ ft.Drilling Breaks and/or Shows: Formation Interval: Lithology and Sample Show:

Por	Fluor	Color	Stn	Cut		
	Before	During	After	Before	During	After
Drill Rate:				Total Gas:		
Mud Weight:				Chromatograph:		
Cuttings Gas:				C ₁		
				C ₂		
				C ₃		
				C ₄		
				C ₅ ⁺		

(Use another page(s) for additional show(s).)

DST # Interval, Formation, Times Wtr. Cush. Blow Recovery

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP						
FP						
SIP						
BHT						

Cost to date: Remarks Drill cement & shoe out of 8 5/8"; service rig; Drill 7 7/8" hole to 1848'; survey & try to dry hole- making about 1" stream water; cont to mist drill to 1943'; service rig; drill to 2377; circ to run survey- pressure to 450#- water inc. slowly; HOURS: drill 17 3/4; sury 1; rig ser 1; drill cementDo remarks go on Amoco scout ticket? Yes No 4 1/2; try to dry hole 3/4; circ to survey 1/4

Do remarks get called out to other companies? Yes No

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OCT 13 1987DIVISION OF
OIL, GAS & MINING

DAILY WELL CALL REPORT

Bataa O, Inc.

Well Name/Operator Lone Cedar Federal #42-15 Location SE1NE1-15-T31S-R12EKB: 4991' Spud date: 8/11/87 Rig Phone: NoneToday's Date: 8/17/87 Recorded by: Carl Friis (from Kenny Hayes)Current Operations: Drilling cementPresent TD 1714' Wellsite Geologist/Mudlogger Bill NagelFeet/24 hrs. -0- Trips 1

Tops

Lithology Description

Gas: Background -	units	Breakdown:
Connection -	units	Breakdown:
Trip -	units	Breakdown:

#3

Drilling Rate	NA	Bit No./Type	7 7/8 V537	Mud. Wt. (Air)	WL
W. O. B.	12,000	R. P. M.	65	Vis.	pH
Flowline Temp.		Flow Rate		Filtercake	Cl
Pump Press./SPM	250 (Air)			Nitrates	H ₂ S
Deviation Surveys	-	@	ft.	Ca	Sand/Solids
		@	ft.	MBT	KCl
		@	ft.		

Drilling Breaks and/or Shows: Formation

Interval: Lithology and Sample Show:

Por	Fluor	Color	Stn	Cut		
	Before	During	After	Before	During	After
Drill Rate:				Total Gas:		
Mud Weight:				Chromatograph:		
Cuttings Gas:				C ₁		
				C ₂		
				C ₃		
				C ₄		
				C ₅ +		

(Use another page(s) for additional show(s).)

DST # Interval, Formation, Times

Wtr. Cush. Blow

Recovery

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP						
FP						
SIP						
BHT						

Cost to date:

Remarks Finish laying down 8" drl assembly; R/U & run 39 its 8 5/8" 24# 8 round stc casing & shoe= 1717.43'; Rig up rig pump & wash to bottom; R/U Halliburton & cement w 160 sks premium cement + floceal/sk + 2% CaCl₂ Drop plug; displace w 108 BBLS h₂O & bump plug 1000#; released-float held; job done 12:00 8/16;

Do remarks go on Amoco scout ticket? Yes No landed 1712' KB float 1668'; had ret. during job; woc; nipple up BOP; pres test BOP, manifold 30 min ea 1200 psi-ok; P/U 4 DC's trip in hole; unload hole & tag plug 1668'; drill plug & cement

Do remarks get called out to other companies? Yes No
HOURS: trip 2 1/4; lay down 8" 1; run 8 5/8" 3; wash & ream 1 1/2; cement 1/2; woc 8; nipple up 6; pres. test 1/2; unload hole 1/2; drill cement 3/4.RECEIVED
OCT 13 1987DIVISION OF
OIL GAS & MINING

DAILY WELL CALL REPORT

Bataa O, Inc.

Well Name/Operator Lone Cedar Federal #42-15Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ -15-T31S-R12EKB: 4991' Spud date: 8/11/87 Rig Phone: NoneToday's Date: 8/16/87 Recorded by: Carl Friis (from Kenny Hayes)Current Operations: Trip Out of HolePresent TD 1724' Wellsite Geologist/Mudlogger Bill NagelFeet/24 hrs. 653 Trips 2Tops Shinarump 1140, Moenkopi 1170

Lithology Description

Gas: Background -	_____	units	Breakdown: _____
Connection -	_____	units	Breakdown: _____
Trip -	_____	units	Breakdown: _____

Drilling Rate <u>32.7</u>	Bit No./Type <u>1/11" V-537</u>	Mud. Wt. <u>Air Mist</u>	WL _____
W. O. B. <u>30-35,000</u>	R. P. M. <u>65-70</u>	Vis. _____	pH _____
Flowline Temp. _____	Flow Rate _____	Filtercake _____	Cl _____
Pump Press./SPM <u>250 (Air)</u>		Nitrates _____	H ₂ S _____
Deviation Surveys <u>3/4</u> ° @ <u>1250</u> ft.		Ca _____	Sand/Solids _____
		MBT _____	KCl _____

Drilling Breaks and/or Shows: Formation

Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut
	Before	During	After	Before
Drill Rate:	_____	_____	_____	_____
Mud Weight:	_____	_____	_____	_____
Cuttings Gas:	_____	_____	_____	_____
			Total Gas:	_____
			Chromatograph:	_____
			C ₁	_____
			C ₂	_____
			C ₃	_____
			C ₄	_____
			C ₅ ⁺	_____

(Use another page(s) for additional show(s).)

DST # _____	Interval, Formation, Times _____
Wtr. Cush. _____	Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Drill to 1102'; ser rig; drill to 1288'; survey 1250'; drill to 1400';
ser rig; drill to 1614'; fill on conn-wipe pipe and circ to bottom; drill to
1661'- fill on conn; drill to 1691-fill on conn; drill to 1724-circ to run
8 5/8"; trip out & lay down. HOURS: drill-20; surv 4; trip 14; rig serv 8;
 Do remarks go on Amoco scout ticket? Yes No circ 2.

Do remarks get called out to other companies? Yes No

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DIVISION OF
OIL, GAS & MINING

DAILY WELL CALL REPORT

Bataa O' Inc.

Well Name/Operator Lone Cedar Federal #42-15

Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ -15-T31S-R12E

KB: 4991'

Spud date: 8/11/87

Rig Phone: None

Today's Date: 8/15/87

Recorded by: Carl Friis (from Kenny Hayes)

Current Operations: Drilling

Present TD 1071'

Wellsite Geologist/Mudlogger Bill Nagel

Feet/24 hrs. 826

Trips 2

Tops Chinle 933'

Lithology Description

Gas: Background - _____ units
 Connection - _____ units
 Trip - _____ units

Breakdown: _____

Breakdown: _____

Breakdown: _____

Drilling Rate 38.4

Bit No./Type 1/ 11"V-537

Mud. Wt. Air/Air Mist WL

W. O. B. 20-24,000

R. P. M. 65-70

Vis. _____

pH _____

Flowline Temp. _____

Flow Rate _____

Filtercake _____

Cl _____

Pump Press./SPM 240 (Air)

Nitrates _____

H₂S _____

Deviation Surveys

3/4

° @

325

ft.

Ca _____

Sand/Solids _____

3/4

° @

667

ft.

MBT _____

KCl _____

-0-

° @

970

ft.

Drilling Breaks and/or Shows: Formation

Interval: _____

Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut			
	Before	During	After	Before	During	After	
Drill Rate:	_____	_____	_____	Total Gas:	_____	_____	_____
Mud Weight:	_____	_____	_____	Chromatograph:	_____	_____	_____
Cuttings Gas:	_____	_____	_____	C ₁	_____	_____	_____
				C ₂	_____	_____	_____
				C ₃	_____	_____	_____
				C ₄	_____	_____	_____
				C ₅ ⁺	_____	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
 Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP	_____	_____	_____	_____	_____	_____
FP	_____	_____	_____	_____	_____	_____
SIP	_____	_____	_____	_____	_____	_____
BHT	_____	_____	_____	_____	_____	_____

Cost to date: _____

Remarks Blow hole dry; drill w/air to 325'; survey; drill to 518'-change to air mist; drill to 635'-bad survey; drill to 667; survey; drill to 1012; survey; drill to 1071'- water slowly but steadily increasing. HOURS: drill 21; surv 1; stuck-work free 1 $\frac{1}{2}$; change air to mist $\frac{1}{2}$; blow hole $\frac{1}{2}$
 Do remarks go on Amoco scout ticket? Yes No

Do remarks get called out to other companies? Yes No

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DIVISION OF
 OIL, GAS & MINING

DAILY WELL CALL REPORT

Well Name/Operator Bataa Oil Inc.
Lone Cedar Federal #42-15 Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ -15-T31S-R12EKB: 4991' Spud date: 8/11/87 Rig Phone: NoneToday's Date: 8/14/87 Recorded by: Carl Friis (from Kenny Hayes)Current Operations: Blow hole dryPresent TD 245' Wellsite Geologist/Mudlogger Bill NagelFeet/24 hrs. 20 Trips -0-

Tops

Lithology Description Shaley Sand

Gas: Background -	units	Breakdown:
Connection -	units	Breakdown:
Trip -	units	Breakdown:

Drilling Rate <u>20</u>	Bit No./Type <u>1/11" V-537</u>	Mud. Wt. <u>Air</u>	WL
W. O. B. <u>8-10,000</u>	R. P. M. <u>70</u>	Vis.	pH
Flowline Temp.	Flow Rate	Filtercake	Cl
Pump Press./SPM <u>180 (Air)</u>		Nitrates	H ₂ S
Deviation Surveys	° @	Ca	Sand/Solids
	° @	MBT	KCl
	° @		

Drilling Breaks and/or Shows: Formation

Interval: Lithology and Sample Show:

Por	Fluor	Color	Stn	Cut		
	Before	During	After	Before	During	After
Drill Rate:				Total Gas:		
Mud Weight:				Chromatograph:		
Cuttings Gas:				C ₁		
				C ₂		
				C ₃		
				C ₄		
				C ₅ ⁺		

(Use another page(s) for additional show(s).)

DST # Interval, Formation, Times
Wtr. Cush. Blow

Recovery

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP						
FP						
SIP						
BHT						

Cost to date:

Remarks WO cement; pump 25 sacks standard with 13% CaCl₂-8% gel+10#/sack CalSeal + 25#/sack gilsonite; filled outside w 1" pipe + held: w.o.c.: back out landing joint & nipple up BOP; pressure test BOP: P/U shock sub+2-8" DC's; trip in hole tag cement 105'?-only stringer-plug at 168'; drill plug, cement & shoe; drill to
Do remarks go on Amoco scout ticket? Yes NoDo remarks get called out to other companies? Yes No
245'; slug hole to dry it up.
HOURS: drill 1; trip 2; P/U sub+ DC's 1; wo cement truck 3; cement 4; woc 8; nipple up 7; test BOP 1; drill cement, plug+ shoe 24RECEIVED
OCT 13 1987DIVISION OF
OIL, GAS & MINING

DAILY WELL CALL REPORT

Bataa Oil Inc.

Well Name/Operator Lone Cedar Federal #42-15

Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ -15-T31S-R12E

KB: 4991' Spud date: 8/11/87 Rig Phone: None

Today's Date: 8/13/87 Recorded by: Carl Friis (from Kenny Hayes)

Current Operations: Wait on cement

Present TD 225' Wellsite Geologist/Mudlogger Bill Nagel

Feet/24 hrs. 100' drilled w 11" bit
215' reamed w 17 $\frac{1}{2}$ " bit Trips 2

Tops

Lithology Description Shalely Sand

Gas: Background -	units	Breakdown:	
Connection -	units	Breakdown:	
Trip -	units	Breakdown:	
ream- 50	1-17 $\frac{1}{2}$ " DCI		
Drilling Rate drill-100	Bit No./Type 2-11" V537	Mud. Wt. Air Mist	WL
W. O. B. 8-14,000	R. P. M. 90	Vis.	pH
Flowline Temp.	Flow Rate	Filtercake	Cl
Pump Press./SPM		Nitrates	H ₂ S
Deviation Surveys 3/4 ° @ 150	ft.	Ca	Sand/Solids
1 ° @ 215	ft.	MBT	KCl
° @	ft.		

Drilling Breaks and/or Shows: Formation

Interval: Lithology and Sample Show:

Por	Fluor	Color	Stn	Cut
Before	During	After		Before During After
Drill Rate:			Total Gas:	
Mud Weight:			Chromatograph:	
Cuttings Gas:			C ₁	
			C ₂	
			C ₃	
			C ₄	
			C ₅ ⁺	

(Use another page(s) for additional show(s).)

DST # Interval, Formation, Times
Wtr. Cush. Blow

Recovery

Pressures:	Initial	1st Bomb	Final	Initial	2nd Bomb	Final
HP						
FP						
SIP						
BHT						

Cost to date:

Finish rep mist pump motor starter; run survey; ser rig; drill 11" to 325'; circ & survey; pull out of hole lay down DC's; rig up 17 $\frac{1}{2}$ " bit; ream 11" to 17 $\frac{1}{2}$ " to 215'; blow hole; P.O.C.H: strip cellar; run 6 jts 13 3/8 casing and shoe to 226.59'; float at 170'; landed 215' KB; R/U Halliburton; pump 10 bbls gel water + 80 bbls H₂O-no returns; cement w/220 sks cement w/4 lb floceal; drop plug; disp w 26.9 bbls H₂O; bump plug; releas float-held; job done 9 PM 8/12 No returns; R/U 60'-1" & pump 50 sks outside 13 3/8" from top; filled hole-but cement fell out of sight; order 100 sks more. wo cement & truck.

OCT 13 1987

DAILY WELL CALL REPORT

Bataa (), Inc.

Well Name/Operator Lone Cedar Federal #42-15 Location SE1/4NE1/4-15-T31S-R12EKB: 4991' Spud date: 8/11/87 Rig Phone: NoneToday's Date: 8/12/87 Recorded by: Carl Friis (from Kenny Hayes)Current Operations: Repairing mist pump motor starterPresent TD 125' Wellsite Geologist/Mudlogger Not on SiteFeet/24 hrs. 125 Trips 1

Tops

Lithology Description

Gas: Background -	_____	units	Breakdown: _____
Connection -	_____	units	Breakdown: _____
Trip -	_____	units	Breakdown: _____

Drilling Rate <u>33.3</u>	Bit No./Type <u>1-11" V-537</u>	Mud. Wt. (Air) _____	WL _____
W. O. B. <u>6-8000</u>	R. P. M. <u>90</u>	Vis. _____	pH _____
Flowline Temp. _____	Flow Rate _____	Filtercake _____	Cl _____
Pump Press./SPM <u>100 air</u>		Nitrates _____	H ₂ S _____
Deviation Surveys <u>0</u>	° @ <u>64'</u> _____ ft.	Ca _____	Sand/Solids _____
	° @ _____ ft.	MBT _____	KCl _____
	° @ _____ ft.		

Drilling Breaks and/or Shows: Formation _____
Interval: _____ Lithology and Sample Show: _____

Por	Fluor	Color	Stn	Cut		
	Before	During	After	Before	During	After
Drill Rate:	_____	_____	_____	Total Gas:	_____	_____
Mud Weight:	_____	_____	_____	Chromatograph:	_____	_____
Cuttings Gas:	_____	_____	_____	C ₁	_____	_____
				C ₂	_____	_____
				C ₃	_____	_____
				C ₄	_____	_____
				C ₅ ⁺	_____	_____

(Use another page(s) for additional show(s).)

DST # _____ Interval, Formation, Times _____
Wtr. Cush. _____ Blow _____

Recovery _____

Pressures:	Initial	1st	Final	Initial	2nd	Final
		Bomb			Bomb	
HP	_____		_____	_____		_____
FP	_____		_____	_____		_____
SIP	_____		_____	_____		_____
BHT	_____		_____	_____		_____

Cost to date: _____

Remarks 8 AM-6PM: move in R/U tools, air compressor & bloie line-set deflector;
6-10:15-rebulid & weld deflector; 6:15-drinking water on loc.; 10:15- spud
rathole; rig & drill mousehole 12:15-1; spud main hole 1 am-8/12/87; drill and
survey: got wet 90'; lay line to mist tank; mist pump motor would not start
Do remarks go on Amoco scout ticket? Yes No 4:30 AM- 6 AM

Do remarks get called out to other companies? Yes No

RECEIVED
OCT 13 1987DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS INSPECTION RECORD

✓
del.

OPERATOR Bataa Oil Inc. LEASE U-50955
WELL NO. Lone Cedar Fed. #42-15 API 43-017-30134
SE/NE SEC. 15 T. 31 S R. 12 E CONTRACTOR _____
COUNTY Garfield FIELD Wildcat

DRILLING/COMPLETION/WORKOVER:

☐ APD ☐ WELL SIGN ☐ HOUSEKEEPING ☐ BCPE
☐ SAFETY ☐ POLL. CONTROL ☐ SURFACE USE ☐ PITS
☐ OPERATIONS ☐ OTHER

SHUT-IN ☐ / TA ☐ : ☐ HOUSEKEEPING ☐ EQUIPMENT* ☐ SAFETY
☐ WELL SIGN ☐
☐ OTHER

ABANDONED:
☐ Y MARKER ☐ Y HOUSEKEEPING ☐ N REHAB. ☐ OTHER

PRODUCTION:
☐ WELL SIGN ☐ HOUSEKEEPING ☐ EQUIPMENT* ☐ FACILITIES*
☐ METERING* ☐ POLL. CONTROL ☐ PITS ☐ DISPOSAL
☐ SECURITY ☐ SAFETY ☐ OTHER

GAS DISPOSITION:
☐ VENTED/FLARED ☐ SOLD ☐ LEASE USE

LEGEND: Y - YES OR SATISFACTORY
N - NO OR UNSATISFACTORY
NA - NOT APPLICABLE

*FACILITIES INSPECTED: Location, marker, reserve pit.

REMARKS: P&A'd, TD 5250', no rehab yet, reserve & blooie pits are fenced, pits have a little water.

ACTION: Rehab location & access road.

INSPECTOR: Ed Deputy DATE 11-04-87

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☒ Well File

Don Calvin Fed.
42-15

☒ Suspense

(Return Date) 10-1-89

☐ Other

(Location) Sec 15 Twp 31S Rng 12E

(To - Initials) AWS

(API No.) 43-017-30134

1. Date of Phone Call: 9/5/89 Time: 10:25

2. DOGM Employee (name) Robert D. (Initiated Call ☒
Talked to:

Name Carl Fried (Initiated Call ☐ - Phone No. (303) 356-5699
of (Company/Organization) _____

3. Topic of Conversation: WCR

4. Highlights of Conversation: Will send completion report.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Lone Cedar Federal

9. WELL NO.

42-15

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

T31S, R12E, Sec. 15:

SE $\frac{1}{4}$ NE $\frac{1}{4}$

12. COUNTY OR PARISH
Garfield

13. STATE
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒

b. TYPE OF COMPLETION:

NEW WELL ☒

WORK OVER ☐

DEEP-EN ☐

PLUG BACK ☐

DIFF. RESVR. ☐

Other

2. NAME OF OPERATOR

Bataa Oil, Inc.

3. ADDRESS OF OPERATOR

3400 West 16th St., Building 5, Suite YY, Greeley & MINNESOTA 31

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface Township 31 South, Range 12 East, Section 15:

At top prod. interval reported below

1960' FNL & 580' FEL

At total depth

same as above

14. PERMIT NO.

DATE ISSUED

UT-050-87-OG-061 | 7/13/87

15. DATE SPUDDED

8/11/87

16. DATE T.D. REACHED

9/6/87

17. DATE COMPL. (Ready to prod.)

9/9/87-Plugged

18. ELEVATIONS (DF, RKE, RT, GR, ETC.)*

4977' GR

19. ELEV. CASINGHEAD

NA

20. TOTAL DEPTH, MD & TVD

5250'

21. PLUG, BACK T.D., MD & TVD

NA

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

all

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

None

25. WAS DIRECTIONAL SURVEY MADE

No-

26. TYPE ELECTRIC AND OTHER LOGS RUN

DDL, Microlog, CNL/Density, Compensated Sonic

27. WAS WELL CORED

NO

28. CASING RECORD (Report all strings set in well)

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5#	201' GR	17 1/2"	295 sacks	0
8 5/8"	24#	1702' GR	11"	163 sacks	0
Both casing strings left in hole at plugging—cut off below ground					

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

None made

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4420' - 4440'	43 sacks lite
2200' - 2400'	54sacks lite
1600' - 1800'	48 sacks lite + 3% CaCl
0-125' in 8 5/8"	25 sacks lite

33.* PRODUCTION 0-90' in 8 5/8"-11" annulus - 20 sacks lite

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
NA		NA				Plugged	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
NA							
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
NA							
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY	

35. LIST OF ATTACHMENTS

Drilling Engineers Report, logs + mud log to follow

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Carl Friis

TITLE Land Manager

DATE 12/29/89

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			See mudlog			

RECEIVED
STATE OFFICE

1990 JAN -9 AM 9:00

DEPT. OF INTERIOR
BUR. OF LAND MGMT.

BATAA OIL

LONE CEDAR FEDERAL # 42-15

Section 15, T31S, R12E

GARFIELD COUNTY, UTAH

08-12-87

Present Operation: Repairs. Footage 24 hrs: 125'. Formation: Wet
Depth: 125'. WOB: 6-8,000 lbs. Hook Load: 30,000 lbs. RPM: 90
Circ. Pressure: 100 lbs. Bit: #1 s/n 29830, 11" V537, open jets,
In: 0, Footage: 125' Hrs: 3½.
Hours: Drlg - 3½, Survey - 1/4, Mist Pump Repair - 1-1/2,
RU rotary tools and compressor - 10, Set mouse hole - 2-3/4,
Welder rebuild deflector - 4-1/4.
Survey: 0° @ 64'.
Costs: Rig: 1200, Air, move in/out: 2600, Bits (5): 8480, Supv: 850,
Location & road: 4800, Rental Tools: 40, Water: 750, Survey & Permits:
3127, Trucking: 750, Rotary Move in/out: 11,000, Misc: 500
Total Daily costs: 33,897, Cumulative well: 33,897

Operations: Move in rig and RU tools and air compressor. Lay
bloeie line, set deflector and rebuild same. Company trailer and
water truck on location 6:15 pm 8/11/87. Spud rat hole 10:15 pm
8/11/87, set same. RU and drill mouse hole. RU to spud, spud 11"
surface hole 1:00 am 8/12/87. Drill and survey. Hole wet at 90',
making water @ 125', lay water line to mist tank. Mist pump motor
won't start, work on starter.

08-13-87

Present Operation: WOC, Days: 1, Footage Past 24 hrs: 100' 11",
215' 17-1/2". Formation: shale sand. Depth: 225'. WOB: 8-14,000
Hook Load: 38,000. RPM: 90. Circ. Pressure: 180 lbs.
Bit: 1, s/n 29830, 11" V537, open jets, In: 0, Out: 225' Hrs: 4½.
Bit: 2, retip, 17-1/2" DGJ, open jets, In: 0, Out: 215', Hrs: 4½.
Hours: Drlg - 1, Survey - 1, Trip - 2½, Repair - 3/4, Rig Serv. - 3/4,
Cement - 2½, Ream 11" to 17-1/2" - 4½, Circ. - 1/2, Strip cellar - 3/4,
Run 13-3/8" - 2, WOC - 8-1/4.
Survey: 3/4° @ 150', 1° @ 215'.
D.C.: 6, 4½X0, box and pin
Costs: Rig: 3600, Air: 1065, Supvn: 325, Haliburton: 4902,
Rental Tools: 40, Water: 750, 13-3/8" Casing: 5000, Misc: 350.
Total Daily Costs: 16032. Cumulative Water: 1500, Cum Air: 3665.
Cumulative well costs: 49,929

Operations: Finish repair of mist pump motor starter. Ran survey,
service rig, finish drlg 11" hole to 225'. Circ and survey. POOH
and lay down dc. PU 17-1/2" bit, ream 11" to 17-1/2" to 215'. Blow
hole, POOH, strip cellar, RU and run 6 jts 13-3/8" casing and shoe =
226.59'. Landed at 215' KB, float at 170'. RU Halibtn pump 10 bbls
gel water, follow with 80 bbls H2O. No returns, cement with 250 sx
50/50 poz w/1/4# flowcelle per sack, 3% CaCl. Drop plug, displace
with 26.9 bbls H2O. Bumped plug, release pressure, float held. Job
compl 9pm 8/12/87. No cement returns. RU 60' 1", pump 50 sx neat

08-13-87
Continued cement outside 13-3/8", filled hole, but cement fell out of sight. Ordered 100 sx more, WOC cement and cement truck. 13-3/8" equipment guide shoe, insert float, 2 centralizers, 1 cement basket.

08-14-87
Present Operation: Blowing hole. Days: 2. Footage 24 hrs: 20'.
Formation: shales and sand. Depth: 245'. WOB: 8-10,000#, Hook Load: 42,000#, RPM: 70. Circ Pressure: 180.
Bit: 1, rerun, s/n 29830, 11" V-537, open jets, In: 225', 20', 1 hr.
Hours: Drlg - 1, Trip - 1/2, Pressure test BOPs - 1, Drill plug and shoe - 2 1/2, Rig up 8" DC and shock sub - 1, WOC trucks - 3. cement - 1/4, WOC - 8, NU - 7.
D. C.: 11" bit, shock sub, x-over, 2-8" D.C., x-over, 5-6" D.C., 4-1/2" XO
Costs: Rig: 3600, Air: 1564, Supvn: 325, Mud logging: 250, Rental tools: 40, Water: 750, Air: 4173, Hal: 12982, Trucking: 150. Misc: 650
Total Daily Costs: 23,834. Cum Air: 9927, Cum Water: 2250.
Cumulative Well: 73,763.
Operations: WO cement truck, pump 25 sx G w/3% CaCl2, 8% gel, 10# Flo- cele/sx, 25# gilsonite/sx, filled out side and cement held. WOC. Back out land joint, and nipple up BOP's. Pressure test BOP's, and choke manifold, 1200# held ok. Pick up shock sub and 2-8" D.C. Trip in hole, plug @ 168'. Drill cement, shoe, and 20' of hole. Circ to dry up.

08-15-87
Present Operations: Drilling. Days: 3. Footage 24 hrs: 826'.
Formation: Shale/sand. Depth: 1071'. WOB: 20-24,000#
Hook Load: 86,000#. RPM: 65-70. Pump #1: OPI 700HDL 6x8
Pump #2: 214P, 6x14. Circ Pressure: 240
Bit #1: rerun s/n 29830 11" V-537 open jets, In: 225, 846' 22 hrs.
Hours: Drlg - 21, Survey - 1, Work stuck pipe - 1-1/4, change air - 1/4, Blow hole - 1/2.
Surveys: 3/4° @ 325'. 3/4° @ 667', 0° @ 970'.
D.C. and D.P.: Bit, shock sub, changeover, 2 8" DC, 16 6" changeovers
Costs: Rig: 3600. Air: 1050. Supvn: 325. Mud Logging: 250
Rental Tools: 40. Water: 288. Wellhead and Freight: 2063.
Total Daily: 7216. Cumulative Air: 10577. Cumulative Water: 2538
Cumulative Well: 80979
Operations: Blow hole to dry up. Dry and dusting at 325 feet. Ran survey, dust to 518'. Encountered moisture and went to air mist. Drill to 635', run survey - not good and drill to 667'. Run survey and drill to 1012'. Run survey and drill ahead to 1071' with water steadily increasing.

08-16-87

Present Operations: Tripping. Days: 4. Footage 24 hrs: 653'
Formation: sand/shale. Depth: 1724'. WOB: 30-35,000#.
Weight on Hook: 95,000# RPM: 65-70. Circ Press: 250.
Bit: #1 rerun, s/n 29830, 11" V-537, jets open, In: 225' Out: 1724
Total Ftge and Hrs: 1724' 46½ hrs.
Hours: Drilg -20, Survey - 1/4, Trip - 1-1/4, Rig Service - 1/2,
Circulate - 2.
Deviation: 3/4° @ 1250'.
Costs: Rig: 3600, Air: 2178, Supvn: 325, Mud Log: 250, Rental Tool: 40,
Water: 288, Haul 8-5/8": 240. Total Daily: 6921. Cum Air: 12755,
Cum Water: 2826. Cumulative Well: 87900

Operations: Drill to 1102' and service rig. Drill to 1288' and run survey. Drill to 1400' and service rig. Drill to 1614', and had 12' of fill on connection. Work pipe and circulate to bottom. Drill to 1661' and had 14' of fill on connection and drill to 1691'. 10 feet of fill on connection. Drill to 1724', circulate to run 8-5/8", POOH, SLM out, and lay down 8" drilling assembly.

08-17-87

Present Operations: Drilling Cement. Days: 5. Footage/24 hrs: 0
Depth: 1714'. WOB: 12,000#, Hook Load: 94,000. RPM: 65
Circ Pressure: 250. Bit #3: s/n 10035 7-7/8" V-537, open jets,
In: 1714', Footage 24 hrs: 0
Hours: Pressure test - 1/2, Nipple Up - 6, Trip - 2-1/4, Cement - 1/2,
WOC - 8, Lay down 8" -1, Run 8-5/8" casing -3, Wash to Bottom - 1-1/2,
Unload hole -1/2, Drill cement - 3/4.
D.C. & D.P.: 20-6" xo box and pin plus 18 joints 4-1/2" xo drill pipe.
Costs: Rig: 3600, Air: 1590, Supvn: 325, Mud Log: 250, Rental Tools: 40,
Haliburton: 4600, Total Daily Costs: 10405, Cum Air: 14345,
Cum Water: 2826, Cumulative Well: 98305.

Operations: Finish laying down 8" drilling assembly. RU and run 39 joints 8-5/8" 24# 8 rd ST&C casing and shoe = 1717.43'. Hook up rig pump, wash 40' to bottom. RU Hal., cement with 160 sx reg cement containing 1/4# flo seal/sx, 2% CaCl₂. Drop plug, displace with 106 bbls water & bump plug with 1000#. Release pressure, float held. Job complete at noon 8/16/87. Landed 8-5/8" at 1712' K.B. and float at 1668'. Good returns during job. WOC, nipple up BOP's and pressure test BOP's and check manifold to 1200 psi for 30 minutes. Held ck. Pick up 4 drill collars, finish trip in hole, unload hole, and tag plug at 1668' Drill plug and cement.

08-18-87

Present Operations: Circulate for Survey. Days: 6. Footage/24 hrs: 652'
Formation: sand/shale. Depth: 2377'. WOB: 25000#, Hook Load: 100,000
RPM: 65, Circ Press: 450. Bit #3: s/n 10035, 7-7/8" V-537, open jets,
In: 1725' Footage / Hrs: 652' 17-3/4 hrs.
Hours: Drilg - 17-3/4, Survey - 1/4, Rig Serv - 1/2, Drill Cement -4½,
Dry up hole - 3/4, Circulate to survey - 1/4.
Survey: 1/2° @ 1809'.
Costs: Rig: 3600, Air: 1065, Supv: 325, Mud Logging: 250, Rental Tools: 40.
Water: 1008, Total Daily costs: 6288, Cum Air: 15410, Cum Water: 3834
Cumulative Well: 104,593

08-18-87
Continued

Operations: Drill cement, shoe, and service rig. Drill 7-7/8" to 1848' and run survey. Try to dry up hole, and making 1" steady stream of water. Mist drill to 1943' and service rig. Drill to 2377' and Circulate to run survey, with pressure increasing to 450#. Oil and water increasing slowly.

08-19-87

Present Operations: Wash and ream to bottom. Days: 7 Form: White Rim Footage 24 Hrs: 189'. Depth: 2566'. Hook Load: 95,000. RPM: 60-70. Pump #1: 6x8, 108 stks. Circ Press - 500, output - 320 gpm, Vel - 302, D.P. -188. Bit #3: s/n 10035, 7-7/8" V537, open jets, In: 1525', Footage/hrs: 841' 25 hours.

Hours: Drill: 7-1/4, Survey - 1/2, Trip -1/2, Rig Service - 1/4, Circ bottom with air -1, fill hole - 1/2, Wash and Ream -10, mix mud-4. Surveys: 3/4° @ 2333'.

Drill Fluid: Mud wt - 8.9, Vis - 80

D.C. & D.P.: 26" xh box and pin d.c.

Costs: Rig: 3600, Mud: 500, Air: 1065, Supv: 325, Mud Log: 250, Rental Tools: 40, Water: 588, Total Daily: 6338. Cum Mud: 588 Cum Air: 16475, Cum Water: 4392, Cumulative Well Costs: 110,931.

Operations: Survey at 2333', circulate to bottom with 450 psi. Drill, lost returns, blow hole 600 psi. Drill and service rig, Drill to 2566' and blow hole with 950 psi. Shut down and POOH, 14 stands and 1 single. Fill hole, circ, and run in hole to 1950'. Pick up Kelly, wash and ream, mix mud, wash and ream, mix mud, wash and ream to 2285'. Estimate top of White Rim at 2305'.

08-20-87

Present Operations: Drilling. Days: 8 Footage 24 Hrs: 280'.

Formation: Oregon Rock. Depth: 2846'. WOB: 40,000. Hook Load: 102,000. RPM: 60. Pump: Circ Pressure -500, Output -320 gpm, Velocity - 302. D.P. -188

Bit: #3 s/n 10035, 7-7/8" V537 open jets In: 1725'. 1121' 39-1/2 Hrs.

Hours: Drilling: 14-1/2, Wash and Ream: 9-1/4, Rig Serv: 1/4.

Mud Properties: Wt: 8.8, Vis: 44, WL: 11.5, PV: 14, YP:17, Gels: 3/7 pH: 9.5, F.C.: 2/32, Sand: 3/4, Cl: 700, Solids: 4-1/2, LCM: 9,

CA: 80, ALK: .2

D.C. & D.P.: 20 6" xo d.c.

Costs: Rig: 3600, Mud: 1604, Air: 2135, Supvn: 325, Mud Log: 250

Rental Tools: 40, Water: 288, Trucking: 850, Misc: 170, Total Daily: 9262

Cum Air: 18610, Cum Mud: 1604, Cum Water: 4680, Cumulative Well: 120,193.

Operations: Wash and ream to bottom. Drill and service rig. Drill 7-7/8" hole ahead with 40,000WOB. Started de-sander and de-silter at 8 pm 8/19/87.

08-21-87

Present Operations: Drilling, Days: 9, Footage/24Hrs: 339'
Formation: Cedar Mesa. Depth: 3185, WOB: 40,000. Hook: 110,000
RPM: 65-70, Pump #1: 6x8, 108 strks, circ Pres: 500, Output: 320 gpm,
Velocity: 302, D.P.: 188. Bit #3: s/n 10035, 7-7/8" V-537, open jets
In: 1725, Footage/Hrs: 1460' 62-1/4 hrs.
Hours: Drilling: 22-3/8, Survey: 1/4, Rig Serv: 1.
Deviation: 3/4° @ 2837'.
Mud Properties: Wt: 8.9, Vis: 44, WL: 10, PV: 14, YPL 10, Gels: 2/7,
pH: 10.0, F.C.: 2/32, Sand: 1/8, CL: 700, Solids: 6, CA: 80, Alk: 0.35.
D.C. & D.P.: 20 6" xo dc
Costs: Rig: 3600, Mud: 295, Supvn: 325, Mud Log: 250, Rental: 40,
Water: 288, Misc: 408, Total Daily: 5206, Cum Mud: 1899, Cum Air: 18610
Cum Water: 4968, Cum Well: 125, 399.
Operations: Drilling to 2877' and survey @ 2837'. Drill to 3002' and
service rig. Drill ahead to 3185'.

08-22-87

Present Operations: Drilling. Days: 10, Footage 24 Hrs: 215
Formation: Cedar Mesa. Depth: 3400'. WOB: 30,000# Hook Load: 112,000
RPM: 70-80. Pumps: same as above. Circ Press: 800
Bit: #3 s/n 10035, 7-7/8" V537, open jets, In: 1725, Out: 3187
1462 ft 62-1/4 hours. Bit: #4 s/n/ 19952, 7-7/8 V537, 3/16" jets,
In: 3187' 213' 16-3/4 hrs.
Surveys: 2° @ 3187'.
Mud Properties: Wt: 9, Vis: 43, WL: 9, PV: 13, YP: 8, Gels: 2/5,
pH: 9.5, F.C. 2/32, Sand: trace, CL: 700, Solids: 5, Ca: 220, Alk: .1
Costs: Rig: 3600, Mud: 759, Bits: (800) credit, not subtracted from
cum well totals, Supvn: 325, Mud Log: 250, Rental Tools: 40,
Total Daily: 4974, Cum Water: 4968, Cum Mud: 2658, Cum Well: 130,373
Circulate, drop survey and pull out of hole. No tight spots. Service rig
and trip in. Bit 3/8" out of gauge, ream 70' to bottom. Drill to
3230', service rig and drill ahead to 3400'.

08-23-87

Present Operations: Drilling, Days: 11, Footage 24 hrs: 305',
Formation: Cedar Mesa, Depth: 3705'. WOB: 30,00 down to 20,000.
Hook Load: 116,000. RPM: 75. Pumps: same as previously reported.
Bit# 4, s/n 19952, 7-7/8" V537, 3/16" jets, In: 3187', 518' 37-3/4 hrs.
Drilling: 21, Survey: 1-1/2, Repair: 3/4, Rig Service: 1/4,
Hole tight on survey: 1/2, Broken line: 1.
Survey: 1-3/4° @ 3400', 3-1/2° @ 3646'.
Mud Properties: Wt: 8.9, Vis: 43, WL: 10, PV: 13, YP: 9, Gels: 2/6
pH: 10, F.C.: 2/32, Sand: 1/8, CL: 700, Solids: 5, CA: 80, Alk: .45
Costs: Rig: 3600, Mud: 569, Supvn: 325, Mud Log: 250, Rental Tools: 40,
Water: 576, Total Daily: 5360, Cum Mud: 3227, Cum Water: 5544,
Cumulative Well Costs: 135,733

08-23-87
Continued

Operations: Drill to 3421' and service rig. Drill to 3499' and run survey. Broke wire line 50' from bottom, Pull tools out of hole by hand. Pipe tight, work free and drill anhydrite stringer. Drill to 3686' and run survey. Deviation $3\frac{1}{2}^{\circ}$ @ 3646'. Reduce bit weight to 20,000# and w/75 rpm drill ahead about 10-12 feet per hour.

08-24-87

Present Operations: Trip in Hole, Days: 12, Footage 24 hrs: 141'
Formation: Lime, Depth: 3846', WOB: 15000, Hook Load: 124000,
RPM: 80-85, Pumps: same as previously reported.
Bit: #4 s/n 19952, 7-7/8" V537, 3/16 jets, In: 3187, Out: 3846
659 feet 55-1/2 hours. Bit #5 s/n KC5035, 7-7/8 F3, 3/14 jets,
In: 3841 feet.
Hours: Drilling: 17-3/4, Survey: 1-1/4, Trip: 3-1/2, Rig Serv: 1/2,
BHA: 1.
Surveys: 4° @ 3739', 4° @ 3841'.
Mud Properties: Wt: 8.9, Vis: 43, WL: 12, PV: 14, YP: 5, Gels: 0/3,
pH: 11, F.C.: 2/32, Sand: 1/8, CL: 900, Solids: 5, CA: 140, Alk: .7
Drill Assy: 7-7/8" bit, D.C., short 7" dc, 2 6" dc, IBS plus
17 6: dc, xo box and pin.
Costs: Rig: 3600, Mud: 908, Bits: 3189, Supvn: 325, Mud Log: 250,
Rental Tools: 1070, Water: 288, Total Daily Costs: 9630, Cum Mud: 4135
Cum Water: 5832, Cumulative Well Total: 145,363.
Drill to 3716' and service rig. Drill to 3779', run survey.
Drill to 3846 ft. POOH and SLM out w/no change. Caliper dc out of
hole and service rig. Pick up BHA and in hole.

08-25-87

Present Operations: Working on stuck pipe. Days: 13, Footage 24 hr: 0
Formation: Lime, Depth: 3846, Hook Load: 124,000.
Hours: Rig Service: 1/4, Wash and ream: 8-3/4, Work stuck pipe: 14.
Mud Properties: Wt: 8.9, Visc: 43, WL: 8, PV: 15, YP: 6, Gels: 2/5,
pH: 11, F.C. 2/32, Sand: 1/4, CL: 700, Solids: 5, CA: 20, Alk: .9
Costs: Rig: 3600, Mud: 759, Supvn: 325, Mud Log: 250, Rental Tools: 40,
Water: 324, Total Daily: 5298, Cum Mud: 4834, Cum Water: 6156,
Cumulative Well Costs: 150,661.
Operations: Run in hole and hit bridge at 2650'. Service rig. Wash and
ream to 3085'. While running pipe in hole, hit tight spot and
could not pull loose. Work stuck pipe and fishing tools on location
at 4: 30 am, 8/25/87. Free point truck on location at 5:15 am 8/25/87.

08-26-87

Present Operation: Run in Hole, Days: 14, Footage 24 Hrs: 0
Formation: Lime/sand/shale Depth: 3846'.
Pumps: same as previously listed.
Hours: Wash and Ream: 3-3/4, Trip - 3-1/4, Back-off - 1-1/4,
Fill Hole - 1/4, Work Stuck Pipe - 10, Freepoint - 2-1/4,
Unload Hole - 1-1/2, Lay down DC, PU fishing tools- 1-3/4.
Mud Properties: Wt: 8.9, Vis: 44, WL: 7, PV: 14, YP: 7, Gels: 2/6
pH: 11, F.C.: 2/32, Sand: tr, CL: 700, Solids: 5, CA: 60, Alk: .9
DC and BHA: Fishing
Costs: Rig: 3600, Mud: 855, Supvn: 325 Mud Log: 250, Rental: 40,
Water: 288, Air: 1335. Total Daily: 6693. Cum Mud: 5749
Cum Water: 6444, Cum Air: 19945. Cum Well Total: 157,354

Operations: Work stuck pipe, rig up and run freepoint, DC stuck.
Work stuck pipe and wait on air hands. Rig up Air Compressor,
aerate mud and work pipe. Blow hole and unload. Rerun freepoint and
17 DC free. Stuck at stabilizer. Back off at 2906', fill hole and
left 1 dc on top of stabilizer. 2 DC, short DC and bit in hole.
POOH with fish, chaining out. Recovered 16 6" DC, lay down shot
collar, PU jars, intensifier, bumper sub, and run in hole.
Hole bridged at 2300'. PU Kelly and circ and mix mud, loosing
returns - lost 100 barrels. Pull 10 stands 8-5/8" casing, mix
mud and LCM.

08-27-87

Present Operation: Mix Mud, Days: 15, Footage 24 hrs: 0
Depth: 3846'. Pumps: as previously listed.
Bit: #5 s/n KC5035, 7-7/8" F3, 3/14 jets, In: 3841'
Hours: Trip - 5 1/2, Rig Serv - 1/4, Work BOP - 1/4, Wash and
Ream - 14-1/4, Mix mud - 3-3/4, Break Circ - 1/4.
Mud Properties: Wt: 8.9+, Vis: 85, WL: 7, PV: 19, YP: 22, Gels: 7/21
ph: 9.0, F.C: 2/32, Sand: 1/2, CL: 1900, Solids: 5, LCM: 12%, CA: 160
Alk: 0.5. DC and BHA: Bit, 12 - 6" dc, bumper sub, Jars, 4 - 6" dc, dp.
Costs: Rig: 3600, Mud: 220, Supvn: 325, Mud Log: 250, Rental Tools: 40,
Water: 360, Dia Log: 4246, Daily Costs: 9041, Cum Mud: 5969,
Cum Water: 6804, Cum Well: 166,395.

Operations: Trip 3 stds, wash and ream, POOH and lay down fishing assembly.
Service rig and work BOP's, trip in, pick up jars and bumper sub.
Broke circ @ 1712'. Finish trip into bridge, wash and ream, lost
circ 200 bbl @ 2600', approx 300' above fish. Pull out to 1712', and mix
mud and LCM. Stage back in hole to 2600' 5 stds at a time, wash and
ream to 2880'. Lost circ, 250 bbls, fish @ 2906'. Release Dialog
from standby at 2:00 pm 8/27/87. Release mud logger 8/27/87.

08-28-87

Present Operation: Lay down fish and fishing tools. Days: 16
Depth: 3846'. Oumps: same as previously reported. Bit: #5.
Hours: Trip - 6½, Fishing - 7½, Wash and Ream - 4-3/4. Mix
mud and LCM - 2½, Circ - 1, Lay down fish - 2.
Mud Properties: Wt: 8.7, Vis: 54, WL: 8, PV: 13, YP: 16, Gels: 2/11
pH: 10.0, F.C.: 2/32, Sand: 2, CL: 800, Solids: 5, LCM: 12, CA: 180, ALK: 0.
Costs: Rig: 3600, Mud: 2025, Supvn: 325, Mud Log Stdbby: 137, Rental
Tools: 40, Water: 432, Total Daily Costs: 6554, Cum Mud: 7994,
Cum Water: 7236. Cumulative Well Costs: 172,949.

Operations: Wash, ream and circ. Lost circ at 2880', lost 150 bbls.
Work pipe and lay down 3 jts, got returns. Mix mud and wash to
top of fish @ 2906'. Circ and POOH. Hole tight. Make up fishing
assembly, TIH, circ and wash out box. Screw in and work fish. Break
circ. Fish loose at 12:30 am. Work fish out of hole, very tight.
Recovered 1 6" dc, stabilizer, 2 6" dc, 1 7" short dc and bit. Lay
down fishing tools.

08-29-87

Present Operations: Drilling Days: 17, Footage 24 Hrs: 114
Formation: sand/lime. Depth: 3960'. WOB: 15-20,000. Hook: 122,000
Pump same as previously reported. Bit: #5, s/n KC5035, 7-7/8" F3,
3/14 jets, In: 3846'. 114' 14 hours.
Hours: Drilg - 14, Surv- 1/2, Trip - 2-3/4, Repair - 1-1/4, Wait on
Orders - 1, Lay down fish and Drilgassy - 2-3/4, wash - 1-3/4.
Survey: 3-1/4° @ 3900'.
Mud Properties: Wt: 8.7, Vis: 45, WL: 8.6, PV: 45, YP: 14, Gels: 2/5,
pH: 10, F. C.: 2/32, Sand: 1/2, CL: 750, Solids: 5, LCM: 6, CA: 120,
Alk: .45. D.C. and BHA: bit, 15 6" xo dc, jars, 4 6" xo dc.
Costs: Rig: 3600, Mud: 1020, Supvn: 325, Mud Log: 250, Rental Tool: 40,
Water: 477, Trucking: 301, Misc: 170, Total Daily Costs: 6183,
Cum Mud: 9015, Cum Water: 7713, Cumulative Well Costs: 179,132.

Operations: Wait on orders, lay down fishing tools and shot dc.
Repack swivel and run in hole. Wash 150' to bottom, drilling at 3940' with
15,000 weight on bit. Survey at 3900' and drilling ahead 3960'.
Increase weight on bit to 22,000.

08-30-87

Present Operations: Drilling Days: 18, Footage 24 hrs: 280'.
Formation: Sandy lime and anhydrite. Depth: 4240', WOB: 27,000
Hook Load: 125,000. RPM: 65. Pumps: same as previously reported.
Bit: #5, Footage 394' 36-1/2 hours.
Hours: Drilg - 22-1/2, Survey - 1/2, Rig Serv - 1/4, Circ - 1/4,
Chg rotating head rubber - 1/2. Survey: 2-3/4° @ 4089'.
Mud Properties: Wt: 8.7, Vis: 5.4, WL: 8, PV: 14, YP: 7, Gels: 2/5,
pH: 10, F.C: 2/32, Sand: 1/4, CL: 700, Solids: 5, LCM: 4, CA: 100, ALK: .45
Costs: Rig: 3600, Mud: 66, Supvn: 325, Mud Log: 250, Rental Tools: 40,
Water: 297, DOTCO Fshg: 6425, Stripper Rubber: 350, Total Daily: 11,353.
Cum Mud: 9081, Cum Water: 8010, Cumulative Well Total: 190,485.

Operations: Drill to 4035', service rig and drill to 4129 ft. Circ
and run survey @ 4089'. Drill to 4190' and change stripper rubber on
rotating head. Drill ahead to 4240' with 27,000 WOB. Drilling alot
of anhydrite.

08-31-87

Present Operations: Drilling. Days: 19, Footage 24 hrs: 143'.
Formation: Hermosa. Depth: 4383'. WOB: 24-26,000. Hook Load: 126,000. RPM: 65-70. Bit: #5, 537' 59-1/4 hours.
Hours: Drilg - 22-3/4, Survey - 1/2, Rig Serv - 3/4.
Surveys: 3-1/2° @ 4275'. Mud Properties: Wt: 8.8+, Vis: 45, WL: 8, PV: 1/4, YP: 6, Gels: 1/5, pH: 11.5 F.C: 2/32, Sand: 1/2 CL: 600, Solids: 5, LCM: 2, CA: 100, Alk: 1.8
Costs: Rig: 3600, Mud: 689, Supvn: 325, Mud Log: 250, Rental Tool: 475, Water: 576, Total Daily Costs: 5515, Cum Mud: 9770, Cum Water: 8586
Cumulative Well Total: 196,000.

Operations: Drilling to 4343' and service rig. Drill to 4315' and run survey at 4275'. Drill to 4346' and service rig and work BOP's. Drill to 4378' and service rig. Drill ahead to 4383' with 25,000 WOB. Estimated Tops: Chinle - 933', White Rime - 2305', Oregon Rock - 2705', Cedar Mesa - 2933', Elephant Canyon - 3826', Hermosa - 4230'.

09-01-87

Present Operations: Wash and Ream, Days: 20, Footage 24 Hrs: 100
Formation: Hermosa, Depth: 4483'. WOB: 36,000, Hook Load: 132,000
RPM: 65-70, Pumps: same as previously reported.
Bit: #5, s/n KC5035, 7-7/8" F3, 3/14" jets, In: 3846, Out: 4483, 637 ft 74-1/2hrs. Bit #6, s/n 10577, 7-7/8" V547, 3/14 jets, In: 4483'.
Hours: Drilg - 15 1/2, Survey - 3/4, Trip - 5-3/4, Rig Serv - 1/2, Unplug dc - 1, Break circ - 1/4, Wash and Ream - 1/2.
Surveys: 1-1/2° @ 4409', no good @ 4483.
Mud Properties: Wt: 8.8, Vis: 46, WL: 9, PV: 15, YP: 8, Gels: 2/9, pHL 10.5, F.C: 2/32, Sand: 1/2, CL: 700, Solids: 5, LCM: 2, CA: 100 Alk: 1.4. DC and BHA: same as previously reported.
Costs: Rig: 3600, Mud: 572, Bits: 1900, Supvn: 325, Mud Log: 250, Rental Tools: 75, Water: 216, Total Daily Costs: 6938, Cum Mud: 10342, Cum Water: 8802, Cumulative Well Total: 202,938.

Operations: Drill to 4409' and run survey. Service rig and Drill to 4441'. Service rig & Drill to 4483'. Drop survey, POOH, service rig, dress bit, and work BOP's. Run in hole and break circulation @ 3200'. Finish trip in hole. Out of guage hole at 4380', Wash and Ream to bottom.

09-02-87

Present Operations: Drilling. Days: 21, Footage 24 hrs: 142'
Formation: Hermosa, Depth: 4625'. WOB: 40,000. Hook Load: 133,000
RPM: 60-65 Pumps: same as previously reported. Bit: #6, s/n 10577, 7-7/8" V547, 3/14 jets, In: 4483, 142' 22-1/2 hours.
Hours: Drilg - 22-1/2, Survey - 1, Rig Serv - 1/4, Ream to Btm - 1/4.
Surveys: 1-1/2° @ 4525'. Mud Properties: Wt: 8.8+, Vis: 46, WL: 8, PV: 14, YP: 6, Gels: 2/6, pH: 11, F.C: 2/32, Sand: 1/2, CL: 700, Solids: 6, CA: 120, Alk: 1.9. DC and BHA: same
Costs: Rig: 3600, Mud: 1063, Supvn: 325, Mud Log: 250, Rental Tools: 75 Water: 288, Total Daily Costs: 5601 Cum Mud: 11,405, Cum Water: 9090
Cumulative Well Total: 208,539.

Operations: Finish reaming to bottom and drill to 4503'. Service rig. Drill to 4534' and run survey. Drill to 4565'. Run survey at 4525 feet and am Drilling ahead at 4625' with 40,000 WOB.

09-03-87

Present Operations: Drilling. Days: 22, Footage 24 hrs: 189'
Formation: Hermosa Depth: 4814'. WOB: 40,000 Hook Load: 137,000
60-65 RPM. Pumps: same as previously reported.
Bit: #6, s/n 10577, 7-7/8 V547, 3/14 jets In: 4483, 331' 46-1/4 hrs.
Hours: Drilling - 23-3/4, Serv Rig - 1/4.
Mud Properties: Wt: 8.8, Vis: 45, WL: 7.6, PV: 16, YP: 9, Gels: 2/6
pH: 10.5, F.C: 2/32, Sand: 1/8, CL: 700 Solids: 5, CA: 60, Alk: .9
Costs: Rig: 3600, Supvn: 325, Mud: 514, Mud Log: 250, Rental Tools: 1480
Water: 288, Trucking: 175, Misc: 352. Total Daily: 6984, Cum Mud: 11,919
Cum Water: 9378, Cumulative Well Costs: 215,523

Operations: Drill to 4660' and service rig. Drill ahead to 4814'
with 40,000 WOB. Drilling a lot of anhydrite.

09-04-87

Present Operations: Drilling Days: 23, Footage 24 hrs: 174'
Formation: Lower Mancos and Anhydrite. Depth: 4988' WOB: 40,000
Hook Load: 138,000. RPM: 60-65 Pumps: Same as previously reported.
Bit: #6, s/n 10577, 7-7/8" V-547, 3/14 jets, In: 4483, 505' 69 1/4 hrs
Hours: Drlg: 23, Surv: 1/2, Rig Serv: 1/2. Surveys: 1° @ 4800'
Mud Properties: Wt: 8.8, Vis: 46, WL: 8, PV: 16, YP: 9, Gels: 2/7
pH: 10.0, F.C: 2/32, Sand: 1/8, CL: 600, Solids: 5, CA: 40, Alk: 1.9
Costs: Rig: 3600, Mud: 457, Supvn: 325, Mud Log: 250, Rental Tools:
220, Water: 360, Drinking Water: 310, 8-5/8" Casing: 17,270.
Total Daily Costs: 22,792, Cum Water: 9738, Cum Mud: 12,376
Cumulative Well Total: 238,315.

Operations: Drill to 4847' and run survey. Drill to 4910' and
service rig. Drill to 4973' and service rig. Drilling ahead at
4988'. Still drilling a lot of anhydrite.

09-05-87

Present Operations: Drilling Days: 24, Footage 24 Hrs: 116'
Formation: Hermosa. Depth: 5104'. WOB: 40,000 Hook Load: 140,000
Pump: Same as previously reported. Bit: #6, s/n 10577 7-7/8" V547,
Jets: 3/14, In: 4483, Out: 5100 617', 84-3/4 hours. Bit: #7
s/n 25023, 7-7/8 V617C jets: 3/14, In: 51000'.
Hours: Drilling - 16-1/4, Survey - 1/4, Trip - 5-3/4, Rig Serv - 1,
Break circ - 1/4, ream 40' - 1/2. Surveys: 1/2° @ 5100'.
Mud Properties: Wt: 8.9, Vis: 45, WL: 7.6, PV: 15, YP: 9, Gels: 2/9,
pH: 11.5, F.C: 2/32, Sand: 1/2, CL: 700, Solids: 5, CA: 60 Alk: 1.3
DC and BHA: Bit, junk basket, 15 6" xo dc, jars, 4 6" xo dc
Costs: Rig: 3600, Supvn: 325, Mud: 1408, Bits: 1900, Mud Log: 250,
Rental Tools: 220, Water: 360, Misc: 170, Total Daily: 8233,
Cum Mud: 13,784, Cum Water: 10,098, Cumulative Well Total: 246,548

Operations: Drill to 4994' and treat mud for anhydrite. Service rig
and drill to 5050'. Drilling lots of Anhydrite. Service rig and drill
to 5100', drop survey, and POOH. Service rig and work BOP's. Run in
hole to 2800' and break circulation. Finish TIH to 5060' and ream 40'
to bottom. Drill ahead with a new bit at 5104'. Lost 100 bbls mud to
reserve pit when shale shaker breaker kicked out.

09-06-87 Present Operations: Circulating, Days: 25, Footage 24 hrs: 146'. Formation: Paradox. Depth: 5250', WOB: 40,000. Hook Load: 143,000 60-65 RPM. Pump: same as previously reported. Bit: #7, s/n 25023, 7-7/8" V617C, jets: 3/14, In: 5100, 150' 18-3/4. Hours: Drilg - 18, Rig Serv - 1/2, Circ samples - 1/2, treat and condition mud - 5. Mud Properties: Wt: 8.8+ Vis: 51, WL: 8, PV: 12, YP: 7, Gels: 2/9 pH: 10.5, F.C: 2/32, Sand: 1/4, CL: 600, Solids: 5, CA: 80, Alk: 1.7 Costs: Rig: 3600, Mud: 895, Supvn: 325, Mud Log: 250, Rental Tool: 220 Water: 360 Total Daily Costs: 5650. Cum Mud: 14,679, Cum Water: 10,458 Cumulative Well Total: 252,198.

Operations: Drill to 5130' and service rig. Drill to 5178' and circulate for samples. Drilling break @ 5165-5173 w/no shows. 50% Limestone, 30% Chert, and 20% Dolomite. Drill to 5178' and serv rig. Drill to 5250' thru a big stringer of Anhydrite. Circ and mix Anhydrite mixture. Circulate and condition hole to log.

09-07-87 Present Operations: Log Days: 26, Footage 24 hrs: 0. Formation: Akah Depth: 5250' Hook Load: 144,000. Hours: Trip - 8-1/2, Codition Mud - 6, Log - 9-1/2. Mud Properties: Wt: 8.8+, Vis: 52, WL: 7.6, PV: 16, YP: 10, Gels: 2/5 pH: 11.0, F.C: 2/32, Sand: 1/8, CL: 600, Solids: 5, CA: 100 Alk: 1.2 Costs: Rig: 3600, Mud: 866, Supvn: 325, Mud Log: 250, Rental Tools: 220, Water: 288, Total Daily Costs: 5549, Cum Mud: 15,545, Cum Water: 10,746, Cumulative Well Totals: 257,747

Operations: Circulate and condition mud. Wait on loggers, POOH and CLM out. Rig up and log well. Logging tool fell apart and had to run in hole with bit and chase junk to bottom. Circulate and POOH. Rig up loggers, finish log #1, DLL and micro-log. Run log #2.

09-08-87 Present Operations: Wait on orders Days: 27 Depth: 5250 Hours: Trip - 5-3/4, Log - 7-3/4, wash and ream - 1/4, circ - 2-3/4, wait on orders - 7-1/2. Mud Properties: Wt: 8.8, Vis: 63, WL: 7.2 PV: 16, YP: 14, Gels: 3/11, pH: 11, F.C: 2/32, Sand: 1/4, CL: 600 Solids: 5, CA: 100, Alk: 1.1 Costs: Rig: 3600, Mud: 1081 Supvn: 325, Log: 8352, Rental Tools: 220 Water: 288 Daily Costs: 13,866, Cum Mud: 16,626, Cum Water: 11,034 Cumulative well totals: 271,613.

Operations: Run log #2, wouldn't go - stopped at 1935'. Run in hole with bit, wash 8 feet to bottom, circulate and condition mud in hole. POOH with bit, rig up and run log #2 - CNL and Density. Run log #3, Compensated Sonic. Rig down loggers and wait on orders.

09-09-87

Present Operations: Circulate Days: 28. Depth: 5250'
Hours: Trip - 3-1/2, Wait on orders - 18, Lay down dc - 1-1/2,
Circulate and wait on Haliburton - 1.
Costs: Rig: 3600, Supvn: 325, Rental Tools: 220, Water: 288
Total Daily Costs: 4433, Cum Mud: 16,626 Cum Water: 11,322
Cumulative Wells Totals: 276,046.

Operations: Wait on orders. Run in hole with drill collars.
Lay down dc's and run in hole with open ended drill pipe to 4609'.
Break circulation every 25 stds in hole. On bottom at 5 am.
Circulate and wait on Haliburton.

09-10-87

Present Operations: Rig Down. Days Since Spud: 29. Depth: 5250'
Hours: 15 hour day Circ and wait on Halib. - 2, lay down drill pipe
and plug well - 5-1/4, clean pits, pumps and rig down -3, strip
cellar - 2-1/4, wait on welder and cut off 8-5/8 & 13-3/8 - 2-1/2.
Costs: Rig: 2250, Supvn: 325, Air: 1660, Water: 576, Plug well: 6214
Trucking: 1280 Total Daily Costs: 12,305, Cum mud: 16,626,
Cum Water: 11,898, Cum Air: 20,270. Cumulative Well Costs: 288,351

Operations: Circulate and pump 1st plug: 4440 - 4240', 43 sx HLC
12.7#/gal, covered 200 feet. Lay down pipe and pump 2nd plug:
2400-2200', 54 sx, covered 200 feet. Lay down dc and pump plug #3:
1800-1600', 48 sx, 100 ft in and 100 ft out of 8-5/8", 3% CaCl.
Lay down drill pipe, strip cellar, plug top 8-5/8": 25 sx, 125 ft.
Rig up wellhead, plug annulus with 20 sx, 90 ft. Clean pits and pumps
and wait on welder. Cut off 8-5/8" and 13-3/8" and cement top.
Rig released at 9pm 9/9/87. Load out dryers, core bits (2), fishing
tools and core barrel - going back to Vernal, Utah.

Note: Wellhead will go with Aztec truck to Aztec Drilling yard for
machine shop work or to be stored. Flange and spool still attached
to wellhead. Bataa Oil will call Aztec to make arrangements regarding
the wellhead, flange and spool.